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WHC-MR-0403-9

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## Tri-Party Agreement Milestone Summary

July 1993

Date Published  
August 1993

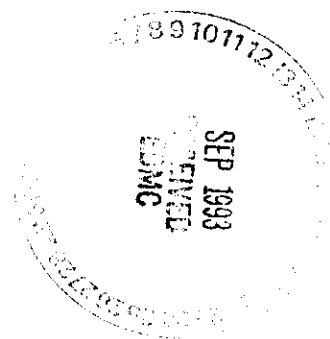
Prepared for the U.S. Department of Energy



**Westinghouse  
Hanford Company**

P.O. Box 1970  
Richland, Washington 99352

Hanford Operations and Engineering Contractor for the  
U.S. Department of Energy under Contract DE-AC06-87RL10930



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# PREFACE

The *Tri-Party Agreement Milestone Summary Report* is issued monthly by the U.S. Department of Energy, Richland Field Office (RL). The report provides a summary progress and financial status for each active *Hanford Federal Facility Agreement and Consent Order* (Tri-Party Agreement) major milestone and its related interim milestones that are active in the current 12-month period. Of the 261 planned interim milestones due by July 31, 1993, 256 were completed. Four other milestones have been completed early.

The following Tri-Party Agreement major milestones have been completed and are not included in this report:

		<u>Completed</u>
M-12-00	Submit remedial investigation/feasibility study (RI/FS) or <i>Resource Conservation and Recovery Act</i> (RCRA) facility investigation/corrective measures study (RFI/CMS) work plan for 15 operable units.	6/30/92
M-21-00	Submit RCRA interim status compliance assessments for all treatment, storage, and disposal units.	4/30/89
M-22-00	Establish enforceable compliance action schedules.	12/29/89
M-23-00	Complete interim status corrective actions.	9/30/91
M-25-00	Provide annual reports of in-progress studies or efforts to identify alternatives to land disposal of radioactive mixed waste	Deleted*
	*M-25-00 was deleted 3/31/92 and requirements combined with revised Tri-Party Agreement milestone M-26-00.	
M-27-00	Submit all aggregate area management study reports (AAMSR) for the 200 areas.	9/29/92
M-28-00	Submit all soils and groundwater background determination documents to U.S. Environmental Protection Agency (EPA) and Washington State Department of Ecology (Ecology).	4/30/92
M-29-00	Submit documentation to EPA and Ecology describing Hanford Site risk assessment methodology.	3/31/92

# TRI-PARTY AGREEMENT BUDGET BASELINE SUMMARY JULY 1993

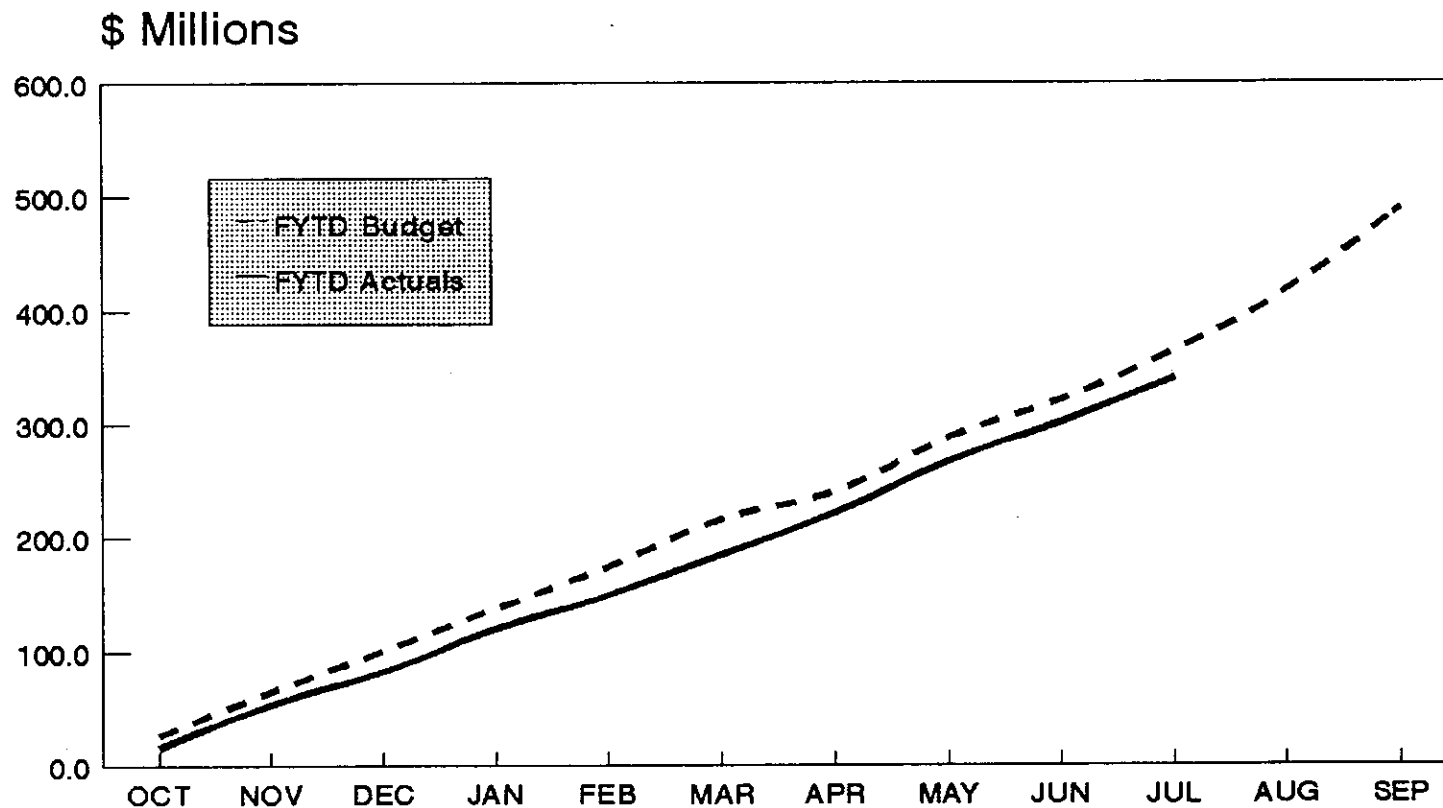
(\$ In Millions)

<u>MAJOR MILESTONE</u>	<u>FYTD BUDGET</u>	<u>FYTD COST</u>	<u>SPENDING VARIANCE</u>	<u>ANNUAL BUDGET</u>
M-00 *	15.5	11.5	3.7	19.9
M-01	31.0	31.5	(0.5)	39.1
M-02 *	15.1	12.8	2.3	22.8
M-03 *	91.0	86.2	4.8	125.6
M-04	0.1	0.0	0.1	0.1
M-05	7.2	7.1	0.1	9.8
M-06 *	2.6	2.2	0.4	3.0
M-07	4.2	3.9	0.3	5.0
M-08	1.8	1.5	0.3	2.4
M-09	5.7	5.2	0.5	6.4
M-10	19.6	19.5	0.1	23.3
M-11	11.7	9.5	2.2	13.6
M-12	0.4	0.3	0.1	0.5
M-13	1.0	0.8	0.2	1.2
M-14	8.0	10.0	(2.0)	10.3
M-15 *	63.0	57.8	5.2	93.0
M-16	9.2	8.9	0.3	9.7
M-17 *	43.3	41.0	2.3	59.2
M-18	7.1	7.1	0.0	7.9
M-19	4.6	4.5	0.1	5.9
M-20 *	8.4	5.7	2.7	12.6
M-24	2.3	2.7	(0.4)	3.6
M-26	0.1	0.1	0.0	0.1
M-30	1.6	1.6	0.0	2.1
M-31	9.2	8.3	0.9	12.3
	<u>363.7</u>	<u>340.0</u>	<u>23.7</u>	<u>489.4</u>

\* These milestones include costs from other contractors.  
All other milestones are WHC only. \$0.0=less than \$100K.

# TRI PARTY AGREEMENT ALL MILESTONES

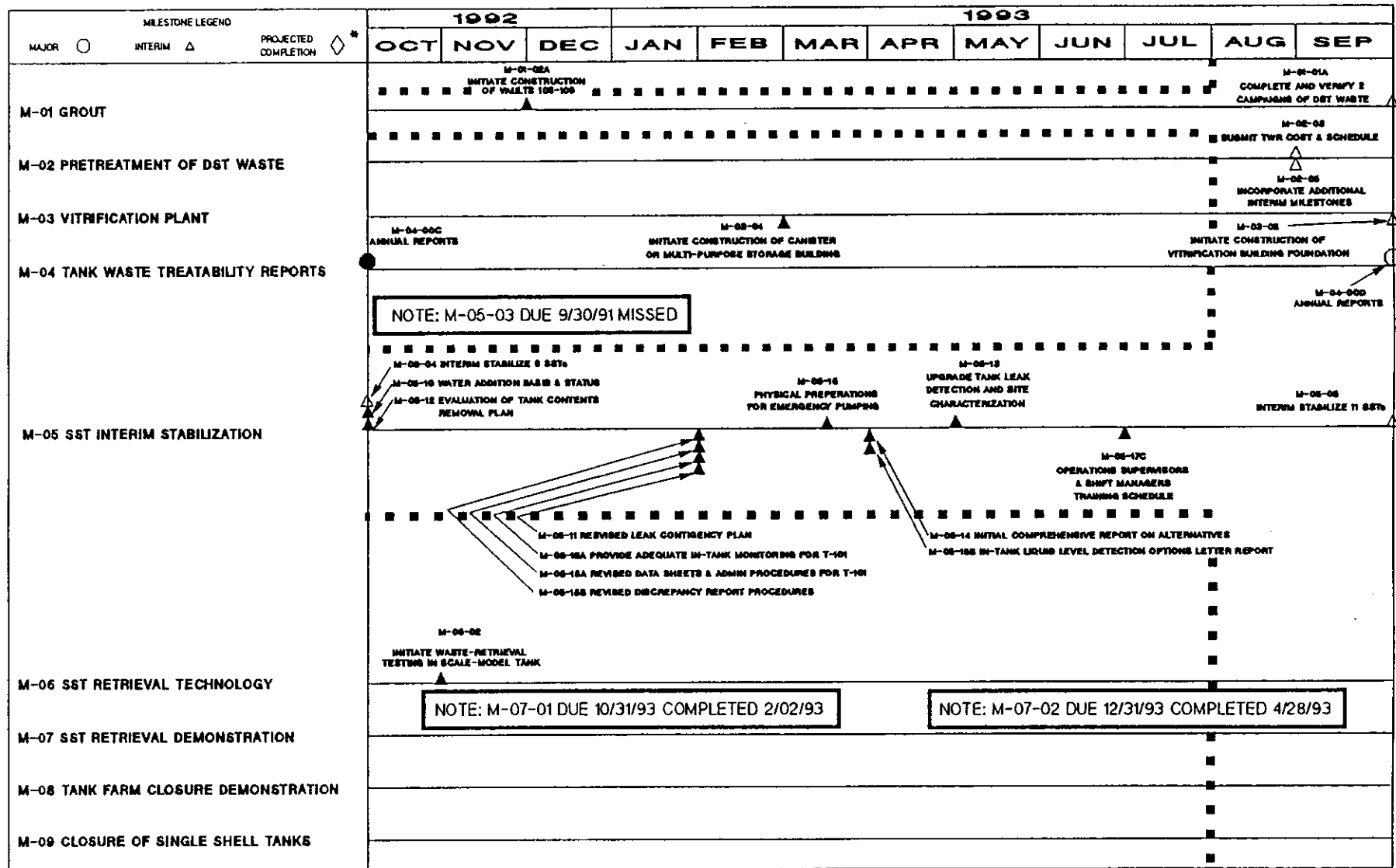
## FY 1993



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## TPA MILESTONES

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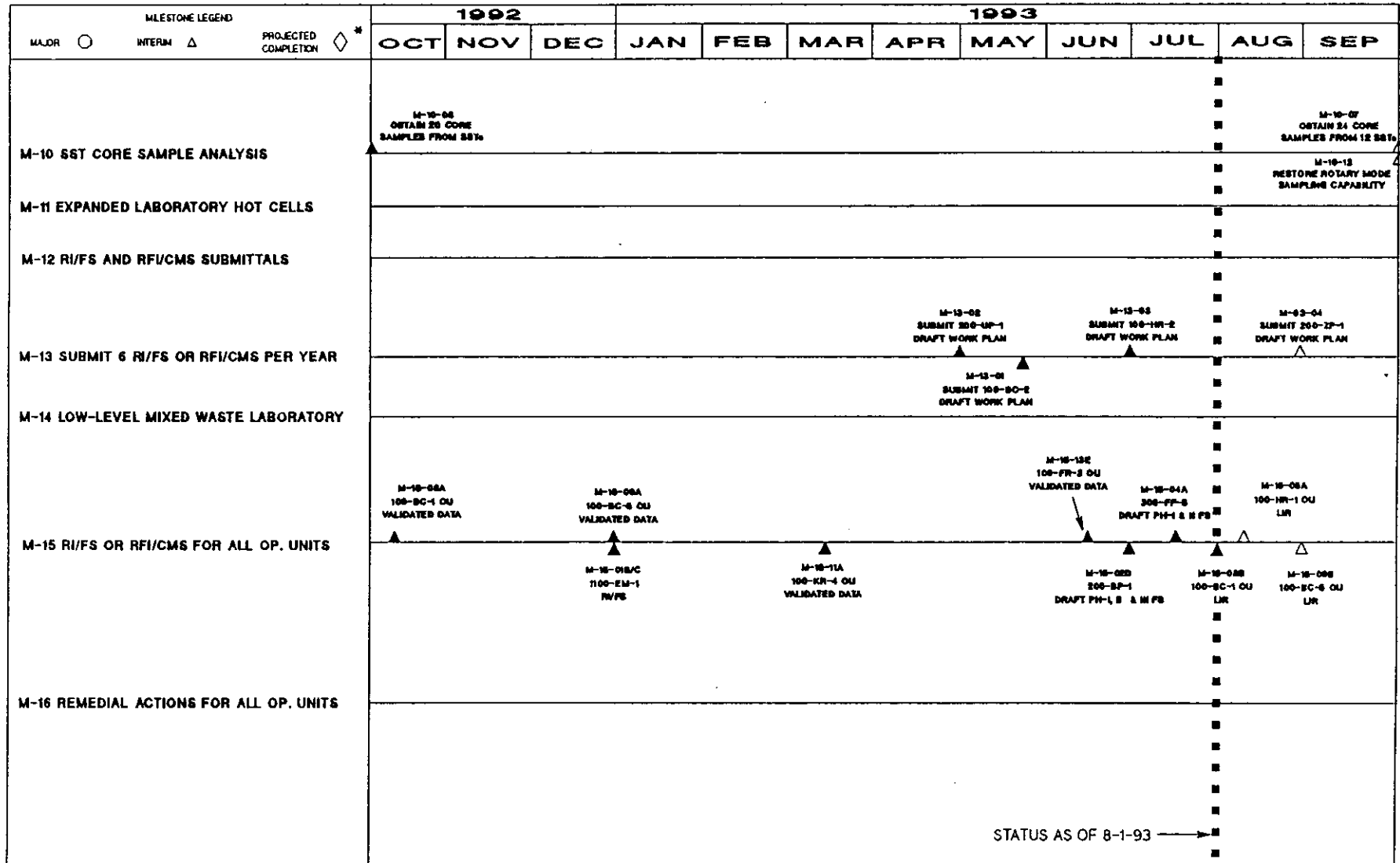
STATUS AS OF 8-1-93 →

\* PROJECTED MAJOR MILESTONE COMPLETION BASED ON FY 94 PLANNING CASE NOT FY 94 TARGET CASE

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## TPA MILESTONES



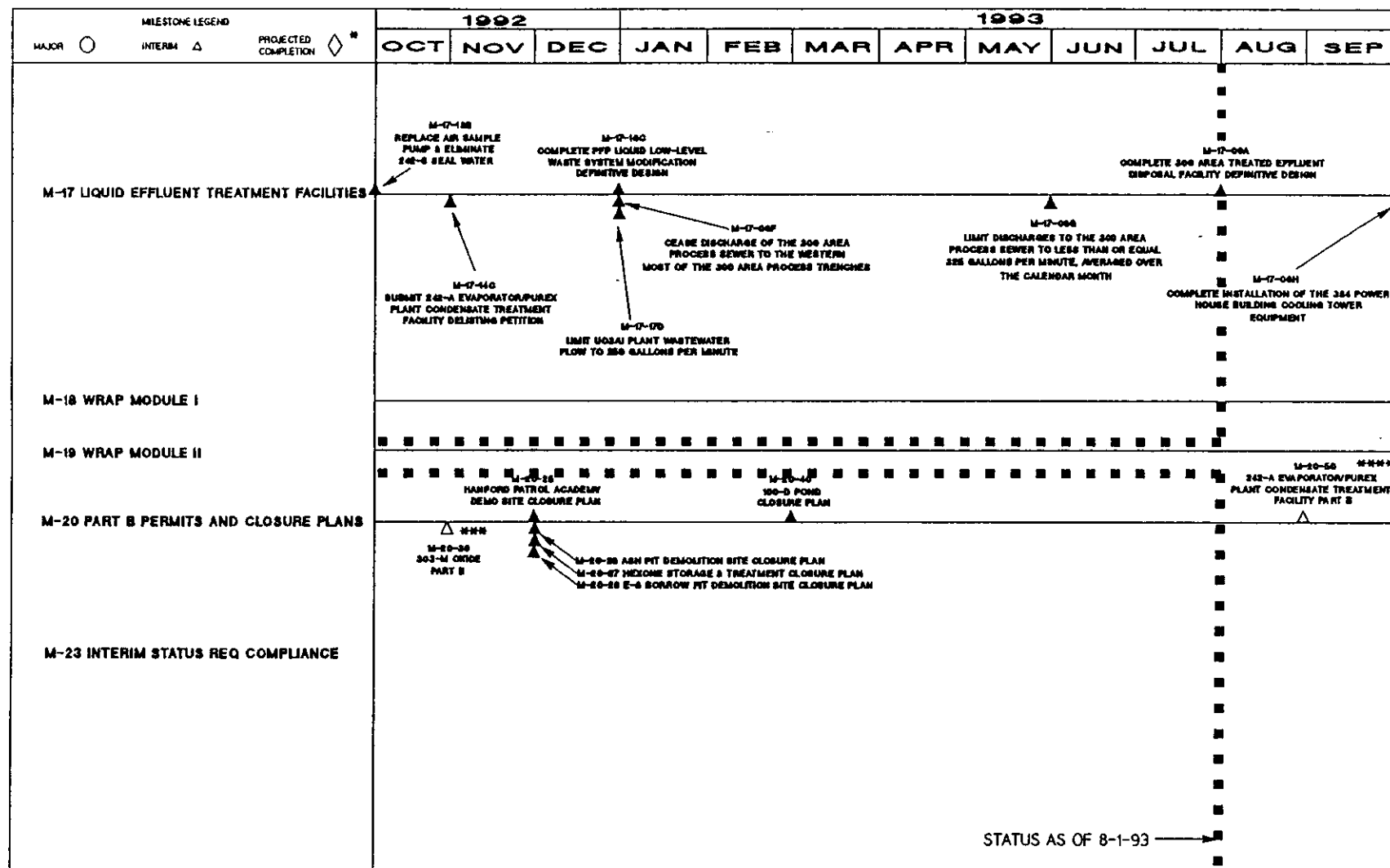
\* PROJECTED MAJOR MILESTONE COMPLETION BASED ON FY 94 PLANNING CASE NOT FY 94 TARGET CASE

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## TPA MILESTONES

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\* PROJECTED MAJOR MILESTONE COMPLETION BASED ON FY 94 PLANNING CASE NOT FY 94 TARGET CASE

\*\* WRAP 2B (TRU WASTE) DELAYED - WRAP 2A (LLW/RMW) PROJECTED TO BE COMPLETED AS SCHEDULED ON 9-30-99

\*\*\* REQUEST TO WITHDRAW PART A DENIED; DISPUTE RESOLUTION STARTED.

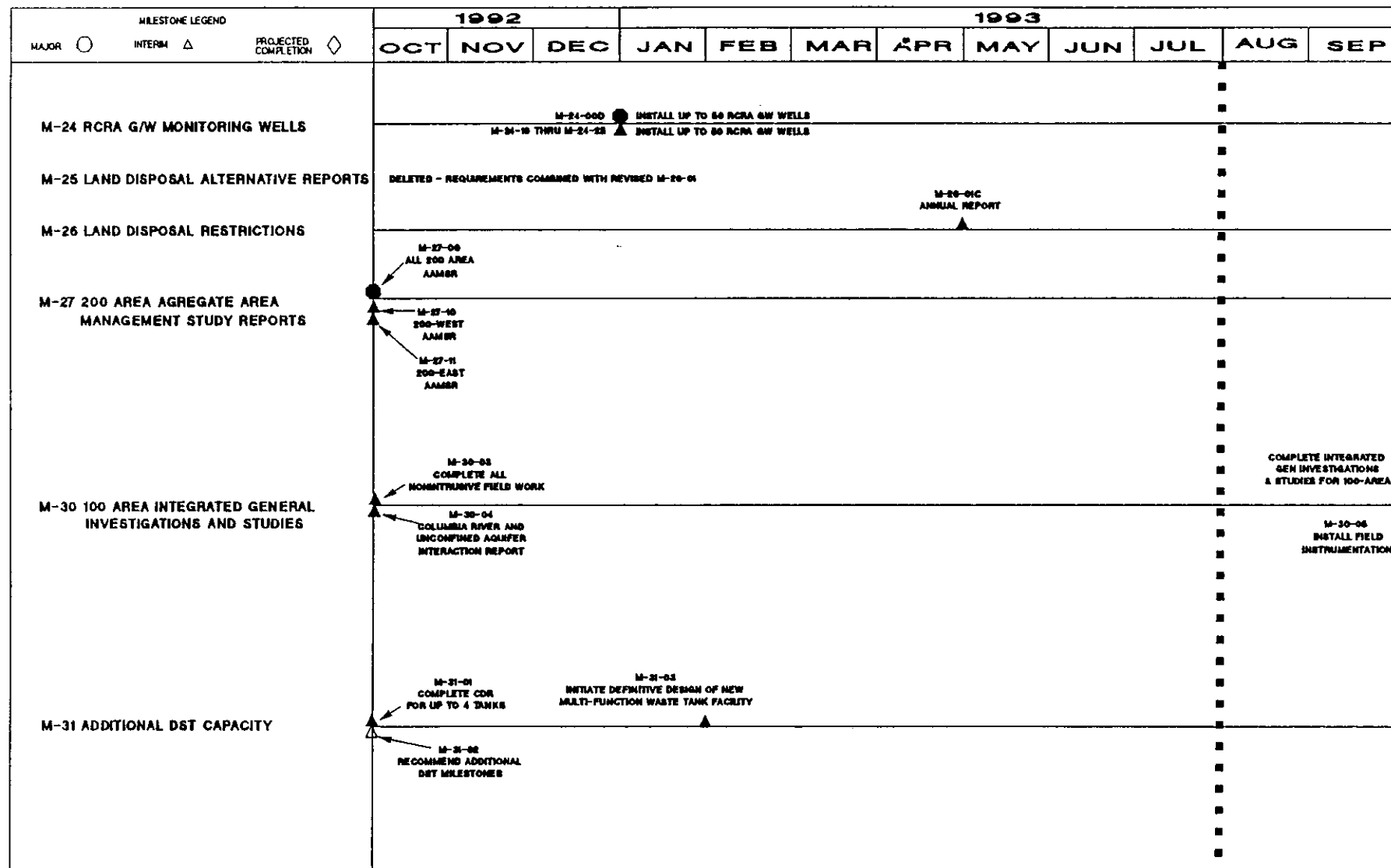
\*\*\*\* FACILITY CURRENTLY TITLED "200 AREA EFFLUENT TREATMENT FACILITY".

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# TPA MILESTONES

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STATUS AS OF 8-1-93

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LIST OF TERMS

CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CY	calendar year
DST	double-shell tank
Ecology	Washington State Department of Ecology
EPA	U.S. Environmental Protection Agency
FY	fiscal year
HQ	U.S. Department of Energy, Headquarters
HWVP	Hanford Waste Vitrification Plant
LDR	land disposal restrictions
LFI	limited field investigation
NEPA	<i>National Environmental Policy Act</i>
OU	operable unit
PUREX	Plutonium-Uranium Extraction (Plant)
RCRA	Resource Conservation and Recovery Act
RFI/CMS	RCRA facility investigation/corrective measures study
RI/FS	remedial investigation/feasibility study
RL	U.S. Department of Energy, Richland Operations Office
SST	single-shell tank
TBD	to be determined
Tri-Party Agreement	<i>Hanford Federal Facility Agreement and Consent Order</i>
TWRS	tank waste remediation system
WRAP	Waste Receiving and Processing (Facility)
WSCF	Waste Sampling and Characterization Facility

**MAJOR MILESTONE: M-01-00**  
**STATUS FOR END OF MONTH: JULY 1993**

DOE DIRECTOR: G. H. Sanders

MANAGER: R. J. Murkowski

BASELINE DATE: December 1996

PROJECTED DATE: To be determined (TBD)

DESCRIPTION: Complete 14 grout campaigns.

**PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

Milestone	Description	Baseline	Projected*
M-01-01A	Complete and verify two campaigns of double-shell tank (DST) waste (including one campaign of phosphate-sulfate waste).	9/93	TBD
M-01-01B	Complete one additional campaign of DST waste (total is three campaigns including one phosphate-sulfate waste campaign).	12/93	TBD

\*Projected date reflects *Hanford Federal Facility Agreement and Consent Order* (Tri-Party Agreement) change request M-01-92-01A.

**ACCOMPLISHMENTS**

- Received verbal agreement from Washington State Department of Ecology (Ecology) about the vault 103 rehydrotest. Ecology has reviewed and returned the videotapes.
- Completed Grout Treatment Facility capacity study. This study will analyze the logistics on the number of vaults to be filled each year.

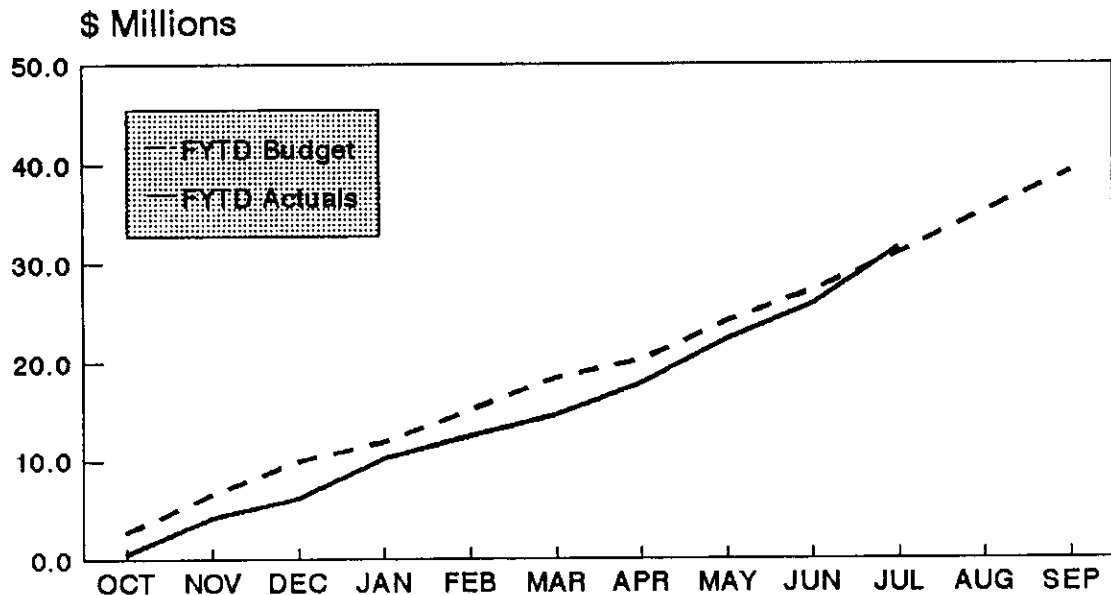
**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- Place cold cap material in vault 101.
- Continue characterization activities for DST 241-AP-102 in preparation of a data package to be sent to Ecology.
- Prepare four vault performance assessments for U.S. Department of Energy, Richland Operations Office (RL) review and forward to U.S. Department of Energy, Headquarters (HQ) peer review panel.
- Continue engineering of facility upgrades such as fire protection, Grout Processing Facility computer modifications, ventilation heat trace, lube oil, sanitary water, and fire system water.

- Complete operational test procedures on vault ventilation system and portable instrument house.
- Continue to resolve and close out comments from Brookhaven National Laboratory on the final safety analysis report. Continue confirmatory testing and validation of gas generation in the vaults.

#### MILESTONE STATUS/PROBLEMS/ISSUES

- HQ has interpreted a letter from the U.S. Nuclear Regulatory Commission as direction to pretreat waste before grouting. This has been incorporated in the new technical strategy and is the subject of ongoing negotiations.
- Reworking the comments and recommendations from the Performance Assessment HQ Peer Review Panel has had a major impact on resources and meeting of milestones. This rework is the major driver for delaying Grout Treatment Facility Tri-Party Agreement milestones (reference change request M-01-92-01A).
- Starting up the Grout Treatment Facility and initiating grout vault 102 filling to meet milestone M-01-01A is highly unlikely. Late mobilization in fiscal year (FY) 1993, facility readiness activities, and lack of appropriate staff already are causing delays (reference change request M-01-92-01A).



FYTD Budget	2.7	6.6	9.9	11.9	15.2	18.5	20.3	24.2	27.3	31.0	35.2	39.1
FYTD Actuals	0.5	4.2	6.2	10.2	12.5	14.7	17.9	22.4	25.9	31.5		
Spending Var	2.2	2.4	3.7	1.7	2.7	3.8	2.4	1.8	1.4	-0.5		

Variance Explanation: None required.

**MAJOR MILESTONE: M-02-00**  
**STATUS FOR END OF MONTH: JULY 1993**

DOE DIRECTOR: L. Erickson

MANAGER: W. C. Miller

BASELINE DATE: TBD

PROJECTED DATE: TBD

DESCRIPTION: Initiate pretreatment of DST waste.

**PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

Milestone	Description	Baseline	Projected
M-02-03	Submit tank waste remediation system (TWRS) baseline scope, cost, and schedule.	8/31/93	1/31/94
M-02-05	Incorporate additional interim milestones to support pretreatment of DST waste.	8/31/93	1/31/94

**ACCOMPLISHMENTS**

- Continued negotiations with Ecology and U.S. Environmental Protection Agency (EPA) on TWRS rebaselining and revision, including M-02.
- Began Phase I of the DST 241-AZ-101 settling test to evaluate temperature response caused by shutting off airlift circulators (M-02-00-T7).

**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

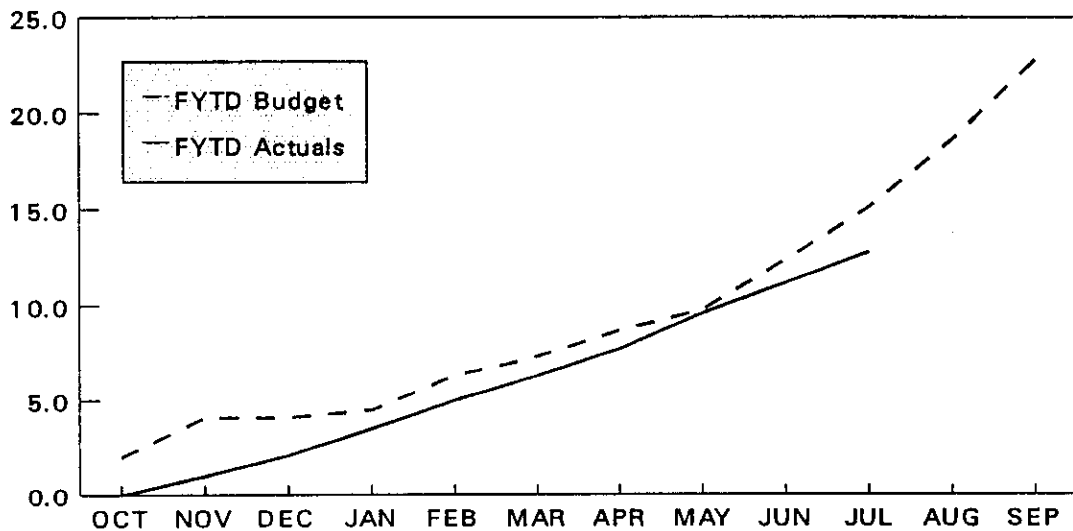
- Leave airlift circulators off through end of 90-day test period and continue to monitor DST 241-AZ-101 temperatures and sludge level. Issue process test report for Phase I of settling-bump test.
- Continue negotiations on M-02-00-related work. Establish revised milestones to reflect new strategy.

**MILESTONE STATUS/PROBLEMS/ISSUES**

- Target milestone M-02-00-T07 ("Initiate Settling Tests for Neutralized Current Acid Waste In-Tank Solids Washing") may be satisfied through initiation of Phase I of the DST 241-AZ-101 settling-bump test. Formal documentation is being prepared to obtain agreement on what constitutes completion of this milestone.

- The TWRS rebaselining study was completed and released in March. A 6-month public participation period has begun to allow public review and comment before agreements are reached with the regulators. The process includes public meetings, workshops, and the formation of a task force of representatives from potentially affected groups. The task force will review the study and provide comments to the three parties.
- Milestones M-02-03 and M-02-05 were established before the Evaluation of Hanford Tank Waste Remediation Alternatives Agreement in Principle was reached. The scope of these two milestones is an integral part of the evaluation and negotiation authorized by the agreement. Draft change requests to delay completion to January 31, 1994, following completion of ongoing negotiations, were prepared and discussed with Ecology and EPA at the Project Managers' meeting on August 3, 1993. Ecology and EPA agreed to approve the change requests.

\$ Millions



FYTD Budget	2.0	4.1	4.1	4.5	6.3	7.3	8.7	9.8	12.4	15.1	18.6	22.8
FYTD Actuals	0.0	1.0	2.1	3.5	5.0	6.3	7.7	9.6	11.2	12.8		
Spending Var	2.0	3.1	2.0	1.0	1.3	1.0	1.0	0.2	1.2	2.3		

Variance Explanation: The underrun results from five principal causes: subcontractors have delayed billing, manpower is not available to start work in some areas, and long-lead procurement times cause some delay. The baseline budgets in pretreatment has not been reduced to reflect work scope transferred to Pacific Northwest Laboratory, and work stopped in the Initial Pretreatment Module for less promising organic destruction technology development.

Change from June budget: Capital budget for the B Plant Process Condensate Treatment Facility (Project W-007H) was reduced again as a result of B Plant's change in mission.



**MAJOR MILESTONE: M-03-00**  
**STATUS FOR END OF MONTH: JULY 1993**

DOE DIRECTOR: R. W. Brown

MANAGER: R. A. Smith

BASELINE DATE: December 1999

PROJECTED DATE: December 1999

DESCRIPTION: Initiate Hanford Waste Vitrification Plant (HWVP) Operations.

**PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

Milestone	Description	Baseline	Projected
M-03-05	Initiate construction of the Vitrification Building foundation.	3/93	9/93

**ACCOMPLISHMENTS**

- Placed 80% of the base slab and started structural steel erection of the Operations Administration Building/TWRS Building.
- Completed aggregate crushing operations for calendar year (CY) 1993.
- Awarded the subcontract for construction of Mechanical Site Utilities.
- Completed 55% of detailed design.

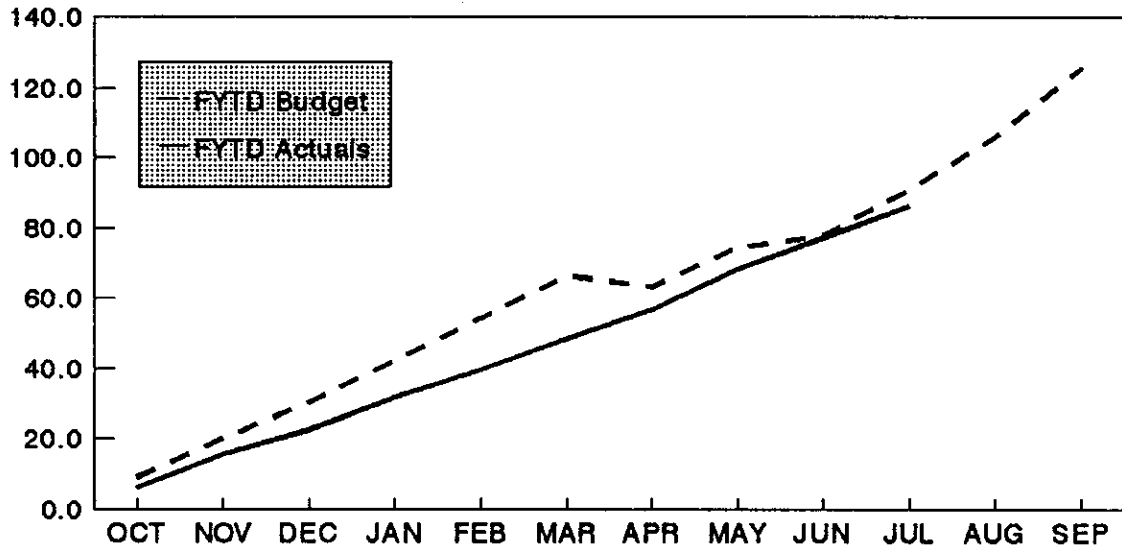
**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- Initiate installation of Mechanical Site Utilities.
- Complete Phase II of the HWVP TOE evaluation, verifying Phase I.
- Continue study to increase the throughput capacity of the HWVP.
- Begin formal safety evaluation activities for the increased plant capacity (4X) concept.
- Complete construction of the temporary warehouse.
- Begin construction of underground utilities.

**MILESTONE STATUS/PROBLEMS/ISSUES**

- Start of construction of the Vitrification Building foundation, milestone M-03-05, has been suspended for 6 months. The 6-month period will be used for public review of the proposed TWRS rebaselining and for negotiating of potential changes to the milestones in the agreement.

\$ Millions



FYTD Budget	9.3	20.2	30.5	42.2	54.4	68.4	63.2	74.4	77.9	91.0	106.0	125.6
FYTD Actuals	6.2	15.8	22.5	32.0	39.5	48.4	56.9	68.3	77.2	86.2		
Spending Var	3.1	4.4	8.0	10.2	14.9	18.0	6.3	6.1	0.7	4.8		

Variance Explanation: None required.

**MAJOR MILESTONE: M-04-00**  
**STATUS FOR END OF MONTH: JULY 1993**

**DOE DIRECTOR:** L. Erickson

**MANAGER:** W. C. Miller

**BASELINE DATE:** September 30, 1993

**PROJECTED DATE:** September 30, 1993

**DESCRIPTION:** Provide annual reports of tank waste treatability studies.

**PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

Milestone	Description	Baseline	Projected
M-04-00D	Provide annual report of tank waste treatability studies.	09/93	09/93

**ACCOMPLISHMENTS**

- Received all draft sections from contributors.
- Completed draft report and began its review within Westinghouse Hanford Company.

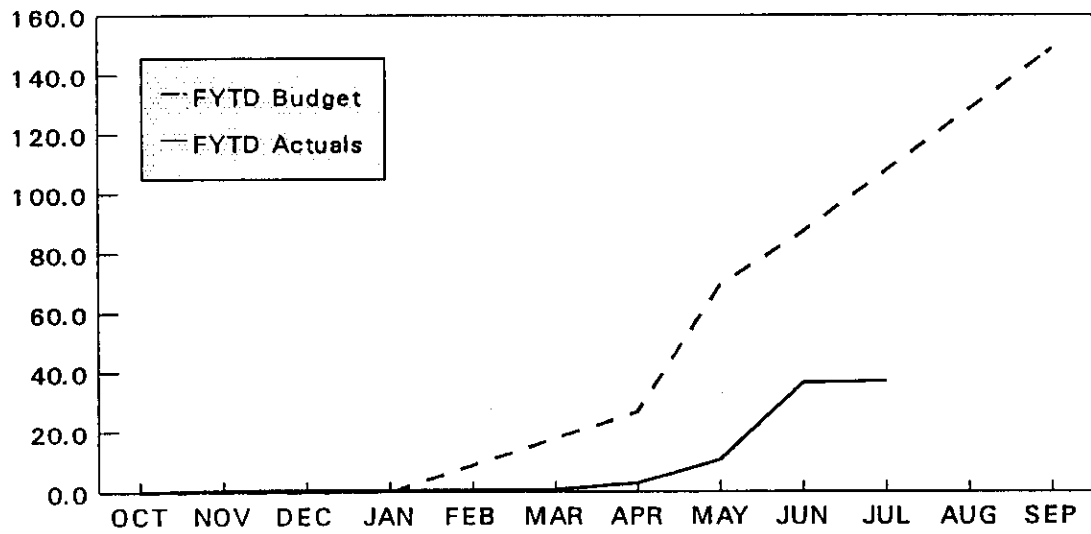
**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- Prepare and issue annual report.

**MILESTONE STATUS/PROBLEMS/ISSUES**

- Nothing significant to report.

\$ Thousands



FYTD Budget	0.0	0.0	0.0	0.0	8.9	17.7	26.6	69.2	87.2	107.7	128.1	148.6
FYTD Actuals	0.0	0.5	0.5	0.5	0.7	0.7	2.8	10.6	36.3	37.0		
Spending Var	0.0	-0.5	-0.5	-0.5	8.2	17.0	23.8	58.6	50.9	70.7		

Variance Explanation: The spending variance results from using fewer resources than expected to prepare draft sections of the report. It also results from the contract costs for work performed that have not been costed. The effort, however, is on schedule and is likely to end the FY under budget. This chart is prepared in thousands to provide meaningful data. The Budget Baseline Summary table shows zero for FY to date budget and FY to date actual because that table is in millions.

**MAJOR MILESTONE: M-05-00**  
**STATUS FOR END OF MONTH: JULY 1993**

DOE DIRECTOR: R. E. Gerton

MANAGER: R. E. Raymond

BASELINE DATE: September 1995

PROJECTED DATE: TBD

DESCRIPTION: Complete single-shell tank (SST) interim stabilization.

**PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

Milestone	Description	Baseline	Projected
M-05-03	Interim stabilize an additional four SSTs.	9/91	TBD
M-05-04	Interim stabilize an additional nine SSTs.	9/92	TBD
M-05-05	Interim stabilize an additional 11 SSTs.	9/93	TBD
M-05-17C	Provide to EPA and Ecology the draft curriculum for the upgraded Maintenance Training Program, and an implementation schedule for that training.	6/94	6/94
M-05-17B	Complete Nuclear Operator training.	12/93	12/93

**ACCOMPLISHMENTS**

- Continued negotiations with Ecology and EPA on TWRS rebaselining, including probable revision of this milestone.
- Received the Justification for Continued Operation Addendum to allow progress to resume on preparing to interim stabilize two tanks in Tank Farm 241-BY and three tanks in Tank Farm 241-C. This was a major hurdle in this activity and represents significant progress for this program.
- Completed the integrity assessment of the waste transfer lines.
- Completed the engineering assessments necessary to provide final determination and documentation that SST 241-SX-102 is not leaking.
- Completed actions required to remove two SSTs from the ferrocyanide watchlist: 241-BX-110 and -111. This clears an important step in preparing to pump these two SSTs.

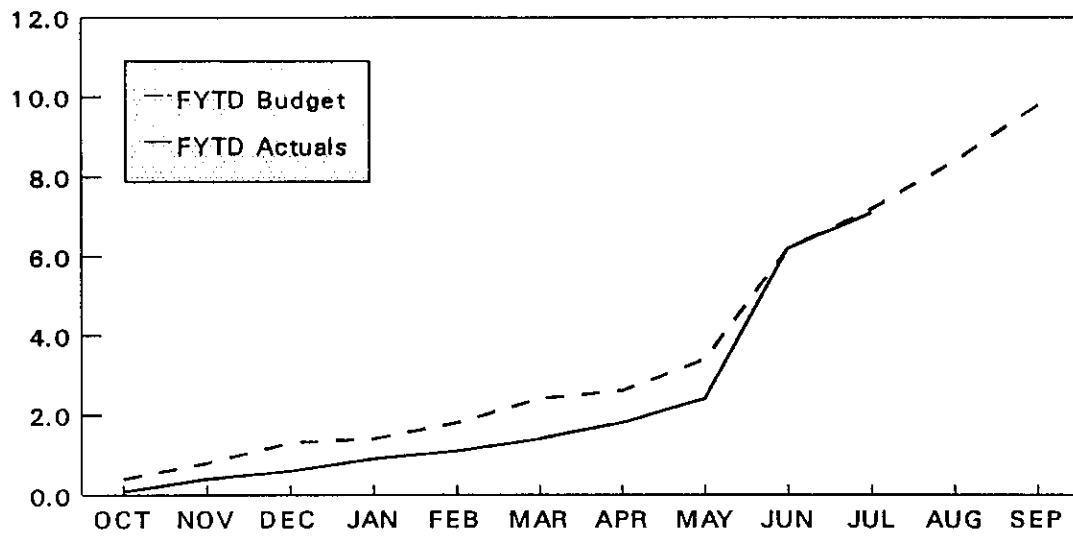
**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- Begin emergency pumping of SST 241-BX-111 and pumping of SST 241-BX-110. The pump in 241-BX-111 will be replaced next month.
- Complete safety analysis report addendum to allow alternative methods for transfer of RAD waste within SST farms. This report is now in RL for review.
- Continue restoration of double-contained receiver tank 244-U.

**MILESTONE STATUS/PROBLEMS/ISSUES**

- RL submitted a draft Tri-Party Agreement Change Control Form to the regulators that would add the start of pumping SST 241-BX-111 in August 1993 as a new interim milestone. Ecology has rejected this approach. RL is reviewing its options before deciding its next step.
- A "Creation of Danger," as defined in Article 31 of the Tri-Party Agreement, was declared on January 28, 1992. To protect worker safety, a work restriction was placed on all SST farms, and fresh air is required to operate within the boundaries of three farms. On February 28, 1992, all waste transfers in the 200-Area tank farms were halted because of concerns on fissile material inventory. The cessation on waste transfers continues. The impacts to the Tri-Party Agreement will result in a change request.
- A safety question was raised about the hazards of higher temperatures that could result in the SSTs when liquid is removed from them. Analyses and studies continue on this question.
- This milestone is being reevaluated under the New Technical Strategy of the TWRS; therefore, the negotiations may result in changes to this milestone. A public involvement program is in place, and renegotiations of this milestone are in progress.

\$ Millions



FYTD Budget	0.4	0.8	1.3	1.4	1.8	2.4	2.6	3.4	6.2	7.2	8.4	9.8
FYTD Actuals	0.1	0.4	0.6	0.9	1.1	1.4	1.8	2.4	6.2	7.1		
Spending Var	0.3	0.4	0.7	0.5	0.7	0.9	0.8	1.0	0.0	0.1		

Variance Explanation: None required.

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**MAJOR MILESTONE: M-06-00**  
**STATUS FOR END OF MONTH: JULY 1993**

DOE DIRECTOR: L. Erickson

MANAGER: W. C. Miller

BASELINE DATE: June 1994

PROJECTED DATE: June 1994

**DESCRIPTION:** Develop SST waste retrieval technology and complete scale-model testing.

**PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

Milestone	Description	Baseline	Projected
None.			

**ACCOMPLISHMENTS**

- Continued negotiations with Ecology and EPA on TWRS rebaselining, including possible revision of this milestone. Continuing discussions cover the recommended milestone program baseline.
- Completed testing on the sludge removal and conveyance system.

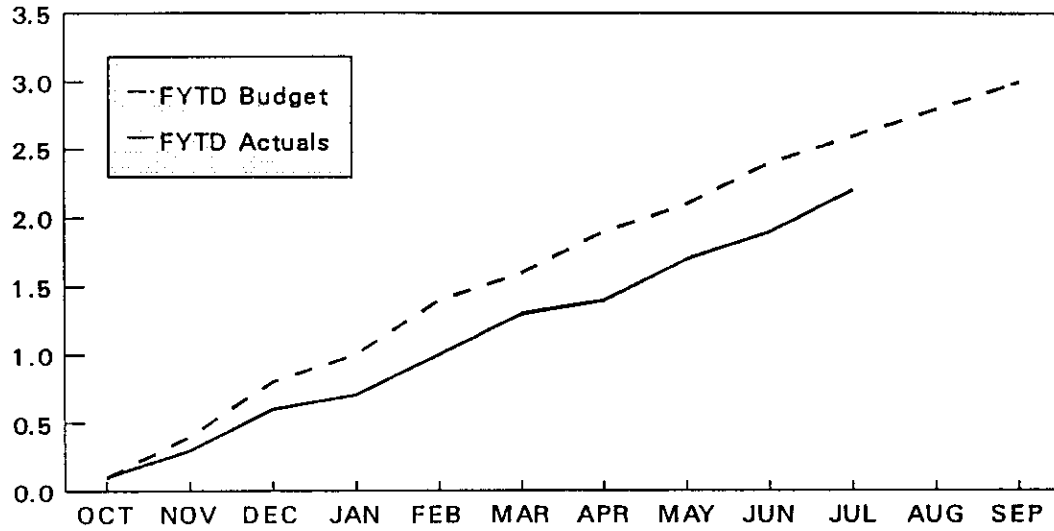
**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- Submit, review, and obtain regulator concurrence on the M-06 definition plan by September 1993.
- Experimentally optimize retrieval rates with computer modeling. Define the airlift conveyance system limits.

**MILESTONE STATUS/PROBLEMS/ISSUES**

- This milestone is on schedule.

\$ Millions



FYTD Budget	0.1	0.4	0.8	1.0	1.4	1.6	1.9	2.1	2.4	2.6	2.8	3.0
FYTD Actuals	0.1	0.3	0.6	0.7	1.0	1.3	1.4	1.7	1.9	2.2		
Spending Var	0.0	0.1	0.2	0.3	0.4	0.5	0.5	0.4	0.2	0.4		

Variance Explanation: The cost underrun results from contract procurement commitments that have not been costed as expected.

**MAJOR MILESTONE: M-07-00**  
**STATUS FOR END OF MONTH: JULY 1993**

DOE DIRECTOR: L. Erickson

MANAGER: W. C. Miller

BASELINE DATE: October 1997

PROJECTED DATE: October 1997

DESCRIPTION: Initiate full-scale demonstration of waste retrieval technology.

**PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

Milestone	Description	Baseline	Projected
None.			

**ACCOMPLISHMENTS**

- Continued negotiations with Ecology and EPA on TWRS rebaselining, including probable revision of this milestone. Continuing discussions explained the recommended milestone program baseline, as well as discussions on tank farm closure. Barrier technology and application requirements were also discussed.
- Continued preparation of environmental and regulatory compliance documentation as required by *Resource Conservation and Recovery Act* (RCRA), *Washington Clean Air Act of 1967*, and *National Environmental Policy Act* (NEPA).

**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- Develop a detailed plan for M-07-00 achievement, integrated with milestone M-06-00 ("Develop SST Waste Retrieval Technology") and the Underground Storage Tank Integrated Demonstration activities. Propose revisions to the M-07 interim milestones based on the detailed schedules.
- Develop and present to the regulators a position paper on tank waste retrieval program regulatory compliance issues.

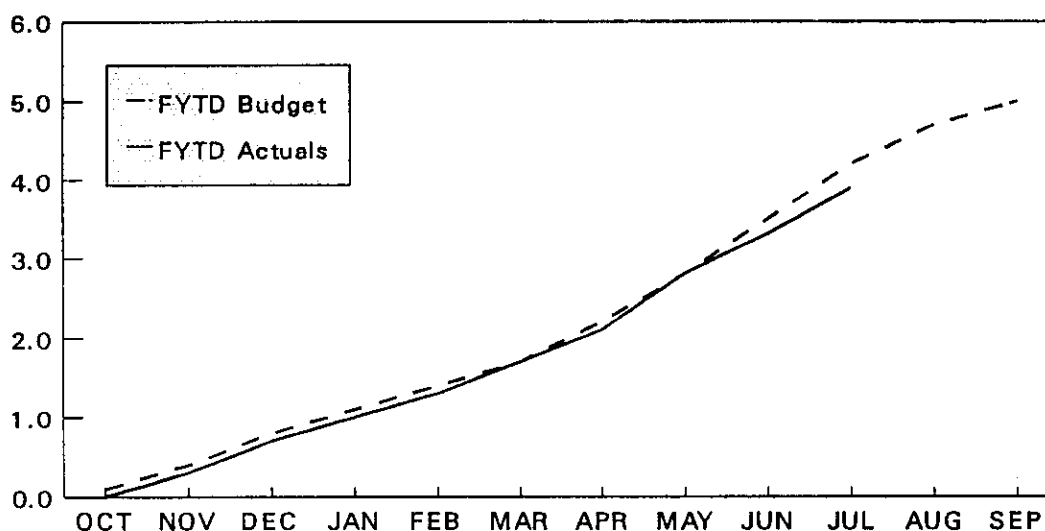
**MILESTONE STATUS/PROBLEMS/ISSUES**

- Preliminary assessments of the impacts of performing NEPA analyses (environmental assessment or environmental impact statement) suggest they could substantially delay this program.
- The preliminary strategy for SST retrieval includes two reference technologies: sluicing and long-reach manipulator systems. The retrieval demonstration under M-07 will use sluicing technology.

Significant development work is required before other retrieval technologies can be used. The long-reach manipulator system (or alternative technology) will be deployed to complete the retrieval demonstration if sluicing cannot achieve the 95-percent waste retrieval criteria for the M-07 demonstration.

- The preliminary studies on subsurface barriers show this technology is in its infancy. The potential that subsurface barriers be required as part of this milestone will practically ensure that the milestone could not be met as scheduled, and the benefit to the environment is questionable. The utilization of surface barriers would provide similar protection to groundwater by preventing precipitation from recharging the vadose zone.
- This milestone is being reevaluated under the New Technical Strategy of the TWRS. The negotiations may result in changes to this milestone. A public involvement program is in place, and renegotiations of this milestone are in progress.

\$ Millions



FYTD Budget	0.1	0.4	0.8	1.1	1.4	1.7	2.2	2.8	3.5	4.2	4.7	5.0
FYTD Actuals	0.0	0.3	0.7	1.0	1.3	1.7	2.1	2.8	3.3	3.9		
Spending Var	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.0	0.2	0.3		

Variance Explanation: None required.

**MAJOR MILESTONE: M-08-00**  
**STATUS FOR END OF MONTH: JULY 1993**

DOE DIRECTOR: L. Erickson

MANAGER: W. C. Miller

BASELINE DATE: June 2004

PROJECTED DATE: June 2004

DESCRIPTION: Initiate full-scale tank farm closure demonstration project.

**PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR NEXT 12 MONTHS**

Milestone	Description	Baseline	Projected
None.			

**ACCOMPLISHMENTS**

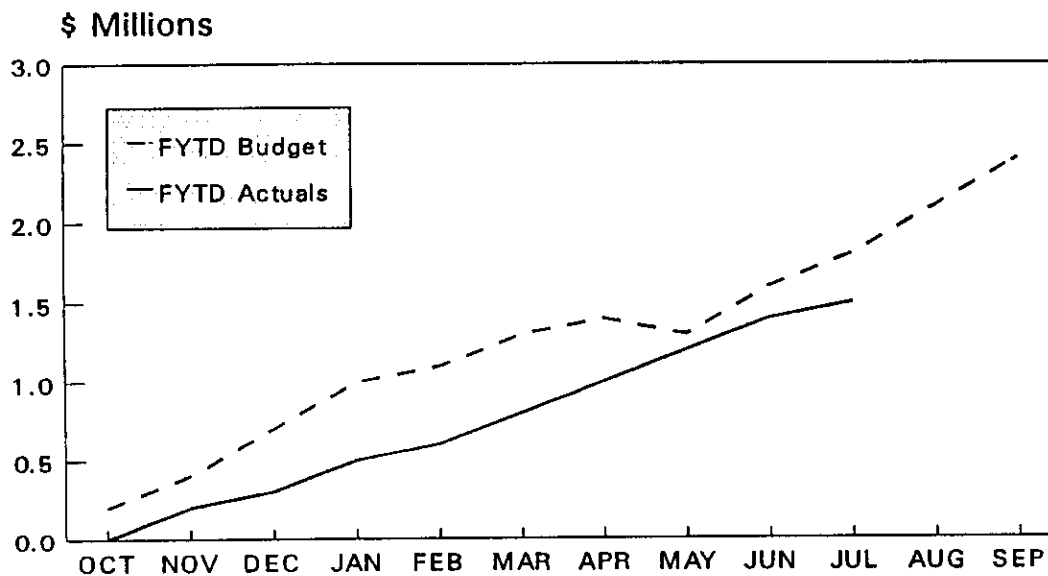
- Continued negotiations with Ecology and EPA on TWRS rebaselining, including probable revision of this milestone. Continuing discussions explained the recommended milestone program baseline, as well as discussions on tank farm closure. Also discussed barrier technology and application requirements.

**PLANNED ACTIONS FOR THE NEXT 6 MONTHS**

- Complete a tank farm retrieval and closure program plan.

**MILESTONE STATUS/PROBLEMS/ISSUES**

- This milestone is on schedule.
- The preliminary studies on subsurface barriers indicate this technology is in its infancy. The potential that subsurface barriers be required as part of this milestone will practically ensure that the milestone cannot be met as scheduled and the benefit to the environment is questionable. The utilization of surface barriers would provide similar protection to groundwater by preventing the recharge of the vadose zone through precipitation.
- This milestone is being reevaluated under the new technical strategy of the TWRS. This milestone may be modified by the TWRS negotiations. A public involvement program is in place, and renegotiations of this milestone are in progress by the three parties.



FYTD Budget	0.2	0.4	0.7	1.0	1.1	1.3	1.4	1.3	1.6	1.8	2.1	2.4
FYTD Actuals	0.0	0.2	0.3	0.5	0.6	0.8	1.0	1.2	1.4	1.5		
Spending Var	0.2	0.2	0.4	0.5	0.5	0.5	0.4	0.1	0.2	0.3		

Variance Explanation: Variance is caused by difficulties in acquiring personnel to perform technology development and program support tasks.

**MAJOR MILESTONE: M-09-00**  
**STATUS FOR END OF MONTH: JULY 1993**

DOE DIRECTOR: R. D. Freeberg

MANAGER: T. M. Wintczak

BASELINE DATE: June 2018

PROJECTED DATE: June 2018

DESCRIPTION: Complete closure of all 149 SSTs.

**PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

Milestone	Description	Baseline	Projected
None.			

**ACCOMPLISHMENTS**

- Continued negotiations with Ecology and EPA on TWRS rebaselining, including probable revision of this milestone. Continuing discussions explained the recommended milestone program baseline, as well as discussions on tank farm closure. Also discussed barrier technology and application requirements.

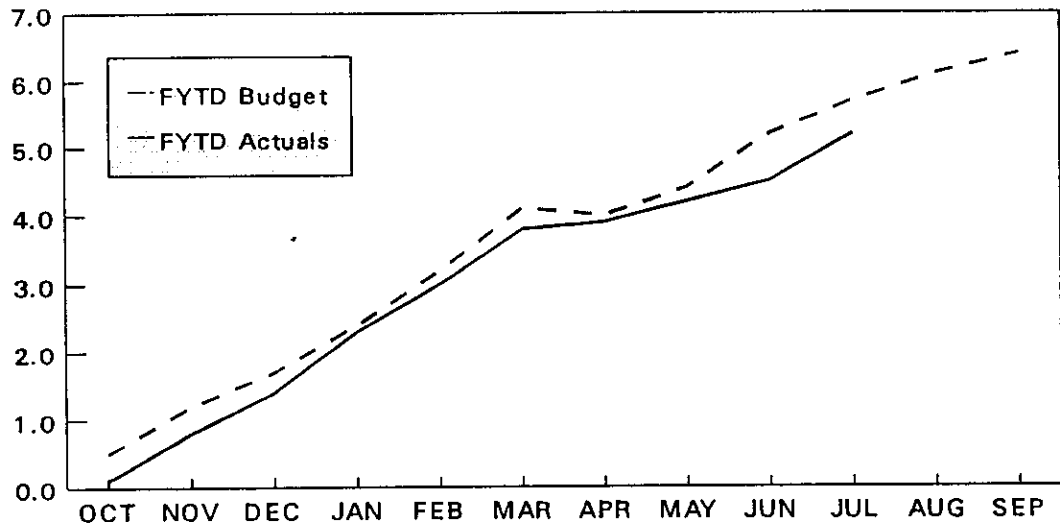
**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- Continue to redefine SST waste disposal strategy under the TWRS Decision Plan.
- Issue in the *Federal Register* a notice of intent for the TWRS Environmental Impact Statement.
- Begin the next revision to the SST Closure/Corrective Action Work Plan, a precursor document for the SST Closure Plan.

**MILESTONES STATUS/PROBLEMS/ISSUES**

- This milestone is on schedule; however, it may be in jeopardy if preclosure activities are not accelerated. Several activities require acceleration: Supplemental Environmental Impact Statement and Record of Decision preparation, SST Waste and Field Characterization, Technology Development, and concurrent permitting with facility design.
- This milestone is being reevaluated under the new technical strategy of the TWRS; therefore, this milestone is subject to modification under the TWRS negotiations. A public involvement program is in place, and renegotiations of this milestone are in progress by the three parties.

\$ Millions



FYTD Budget	0.5	1.2	1.7	2.4	3.2	4.1	4.0	4.4	5.2	5.7	6.1	6.4
FYTD Actuals	0.1	0.8	1.4	2.3	3.0	3.8	3.9	4.2	4.5	5.2		
Spending Var	0.4	0.4	0.3	0.1	0.2	0.3	0.1	0.2	0.7	0.5		

Variance Explanation: None required.

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**MAJOR MILESTONE: M-10-00**  
**STATUS FOR END OF MONTH: JULY 1993**

DOE DIRECTOR: R. E. Gerton

MANAGER: J. G. Propson

BASELINE DATE: September 1998

PROJECTED DATE: September 1998

**DESCRIPTION:** Complete analyses of at least two complete core samples from each SST.

**PAST DUE AND SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

Milestone	Description	Baseline	Projected
M-10-07	Obtain 24 core samples from 12 SSTs.	9/93	9/93
M-10-13	Restore rotary model sampling capability at the Hanford Site.	9/93	9/93

**ACCOMPLISHMENTS**

- Continued negotiations with Ecology and EPA on TWRS rebaselining, including probable revision of this milestone. Substantial agreement has been reached on the recommended changes to a new milestone program baseline. These negotiation sessions also continued discussions with the regulators on a new HQ direction that proposes the SST Characterization Program and related Tri-Party Agreement milestones be reevaluated to reflect retrieval requirements. Characterization data is required to (1) resolve tank safety issues, (2) develop retrieval technologies, and (3) identify pretreatment technologies. Changes to the baseline will need to be reflected in the Tri-Party Agreement major milestone M-10-00.

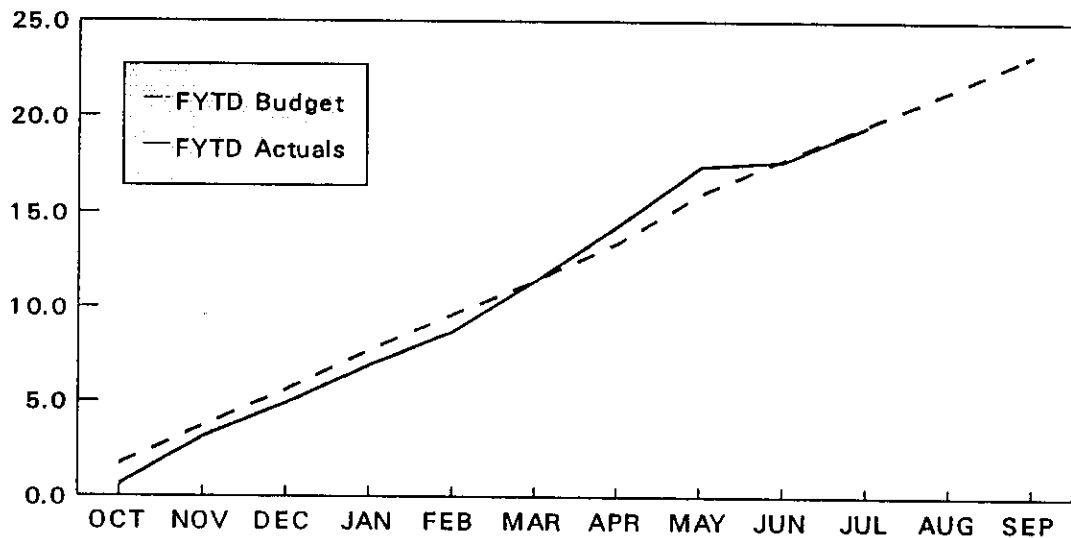
**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- Obtain core samples from SSTs 241-C-106, -C-108, -C-111, and -T-101. All of these SSTs are safety issue SSTs.
- Continue rotary mode sampling testing and implementation.
- Issue the TWRS Waste Characterization Plan. This rewrite of the SST Waste Characterization Plan will incorporate all TWRS requirements into a single plan.

**MILESTONE STATUS/PROBLEMS/ISSUES**

- The major milestone is on schedule; however, interim milestones M-10-07 through M-10-12 are under evaluation. Several actions can be taken to ensure meeting these milestones, both internally and with the regulators. These are being discussed with the regulators.
- The core sampling program is in a technical stand-down because of a possible problem with sample recovery. Less material is being recovered than is expected. Core samples were taken from SST 241-T-105, and the problem appears to have persisted. Until this is resolved, no further core samples are being taken.
- This milestone is being reevaluated under the new technical strategy of the TWRS; therefore, this milestone is subject to modification under the TWRS negotiations. A public involvement program is in place, and renegotiations of this milestone are in progress by the three parties.

\$ Millions



FYTD Budget	1.7	3.7	5.6	7.7	9.6	11.4	13.4	16.0	17.8	19.6	21.4	23.3
FYTD Actuals	0.6	3.1	4.9	6.9	8.7	11.4	14.3	17.4	17.7	19.5		
Spending Var	1.1	0.6	0.7	0.8	0.9	0.0	-0.9	-1.4	0.1	0.1		

Variance Explanation: None required.

**MAJOR MILESTONE: M-11-00**  
**STATUS FOR END OF MONTH: JULY 1993**

DOE DIRECTOR: J. M. Hennig

MANAGER: M. L. Bell

BASELINE DATE: June 1994

PROJECTED DATE: June 1994

**DESCRIPTION:** Complete construction and initiate operations of expanded laboratory hot cells for high-level radioactive mixed waste.

**PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

Milestone	Description	Baseline	Projected
None.			

**ACCOMPLISHMENTS**

- Construction:
  - Completed installing the built-up roof, interior insulation, sheetrock and fire system piping.
  - Received final manipulators and all shielding windows.
  - Completed welding and grinding on load in-load out and sample preparation compartments.
  - Started installation and testing on hot cell drain lines.
- Startup Activities:
  - Submitted the level 3 startup schedule for final approval.
  - Completed the DOE Order compliance review.
  - Submitted a draft startup definition for review.

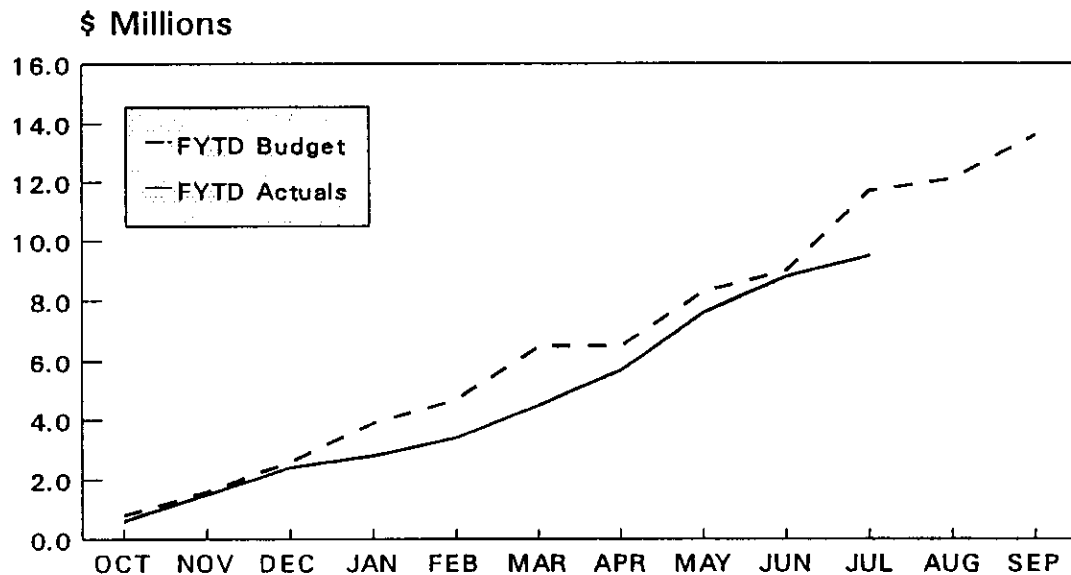
**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- Construction:
  - Complete attachment of all transfer drawers and compartments to the hot cell.
  - Complete installation and testing of hot cell drain lines.
  - Complete installation of electrical, ventilation, and piped services in and around the hot cell.

- Test sample transfer cart.
- Install acoustical tile ceiling and room lighting.
- Startup Activities:
  - Approve startup schedule by August 20, 1993.
  - Begin operational readiness review process.
  - Identify equipment required for startup and prepare purchase orders.

#### MILESTONE STATUS/PROBLEMS/ISSUES

None.



FYTD Budget	0.8	1.6	2.6	3.9	4.7	6.5	6.5	8.3	9.0	11.7	12.1	13.6
FYTD Actuals	0.6	1.5	2.4	2.8	3.4	4.5	5.7	7.6	8.8	9.5		
Spending Var	0.2	0.1	0.2	1.1	1.3	2.0	0.8	0.7	0.2	2.2		

Variance Explanation: Environmental Hot Cell Expansion work, project W-041H, originally scheduled to end in FY 1993, was rescheduled to end in June 1994. Capital budgets associated with this work have not been realigned with the revised construction schedule, resulting in unrealistic FY to date budget figures. This project is proceeding at the revised schedule and within budget. The spending variance for the project will be eliminated as the project nears completion.

**MAJOR MILESTONE: M-13-00**  
**STATUS FOR END OF MONTH: JULY 1993**

DOE DIRECTOR: R. D. Freeberg

MANAGER: T. M. Wintczak

BASELINE DATE: Annual beginning  
CY 1993PROJECTED DATE: Annual beginning  
CY 1993

**DESCRIPTION:** Submit six remedial investigation/feasibility study (RI/FS) or RCRA facility investigation/ corrective measures study (RFI/CMS) work plans each year.

**PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

Milestone	Description	Baseline	Projected*
M-13-04	Submit operable unit (OU) 200-ZP-1 work plan.	8/93	8/93
M-13-05	Submit OU 100 DR-2 work plan.	10/93	10/93
M-13-06	Submit OU 200-BP-5 work plan.	12/93	12/93

**ACCOMPLISHMENT**

Nothing significant to report.

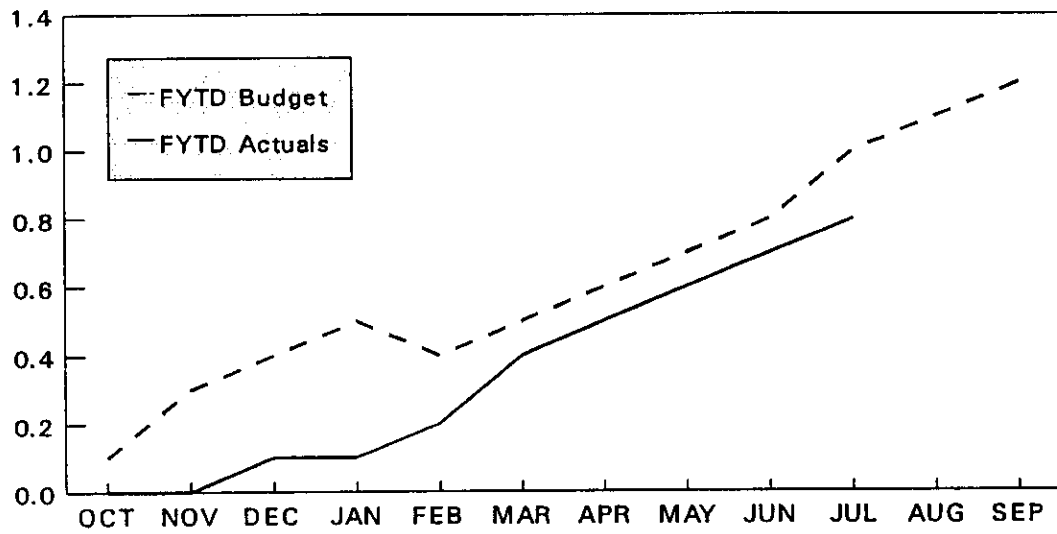
**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- Submit the OU 200-ZP-1 work plan to the regulators for review.
- Submit the OU 100-DR-2 work plan to the regulators for review.
- Continue to resolve comments on the OU 200-UP-2 work plan with the regulators.
- Continue to resolve scheduling conflicts between N Operations and environmental restoration for the OU 100-NR-1 and 100-NR-2 work plans.

**MILESTONE STATUS/PROBLEMS/ISSUES**

- This milestone is on schedule.

\$ Millions



FYTD Budget	0.1	0.3	0.4	0.5	0.4	0.5	0.6	0.7	0.8	1.0	1.1	1.2
FYTD Actuals	0.0	0.0	0.1	0.1	0.2	0.4	0.5	0.6	0.7	0.8		
Spending Var	0.1	0.3	0.3	0.4	0.2	0.1	0.1	0.1	0.1	0.2		

Variance Explanation: The OU 100-HR-2 work plan was prepared in-house by Westinghouse Hanford Company rather than by an offsite subcontractor. Additionally, the work plan references existing approved work plans, which required less document preparation.

**MAJOR MILESTONE: M-14-00**  
**STATUS FOR END OF MONTH: JULY 1993**

DOE DIRECTOR: J. M. Hennig

MANAGER: M. L. Bell

BASELINE DATE: October 1995

PROJECTED DATE: October 1995

DESCRIPTION: Provide low-level mixed waste laboratory services.

**PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

Milestone	Description	Baseline	Projected
M-14-02	Complete construction of a 27-module Waste Sampling and Characterization Facility (WSCF).	10/93	10/93
M-14-03	Initiate WSCF operations.	4/94	4/94

**ACCOMPLISHMENTS**

- Construction (core facility):
  - Assembled all modules that constitute the Analytical Laboratory. Utilities are being connected and readied for testing.
- Construction (auxiliary structures):
  - Installed electrical, heating, ventilating, and air conditioning, plumbing, and computer room access flooring for the Environmental Data Remedial Tracking Facility (Building 6270).
  - Completed mechanical and electrical installations for the Mobile Laboratory Storage Facility (Building 6269).
  - Completed refrigerated storage, high-density shelving, and electrical and mechanical installations for the Environmental Sample Archive Facility (Building 6267)
  - Completed construction of the Utility Building (6265) with the exception of punch list items.
- Startup Activities:
  - Issued the laboratory charter, Maintenance Implementation Plan, Septic System Operating and Maintenance Manual, and Sample Screening Plan; drafted the Readiness Review Board Implementation Plan; and finalized the Final Safety Analysis Report.
  - Continued ramp-up of the operating staff.

- Commercial Laboratory:
  - Received DOE approval for award recommendation packages on July 30, 1993. Westinghouse Hanford Company executed Purchase Order awards with IT and Lockheed on July 30, 1993. TMA/Weston were notified of a third award which will be executed after remaining administrative issues are resolved.

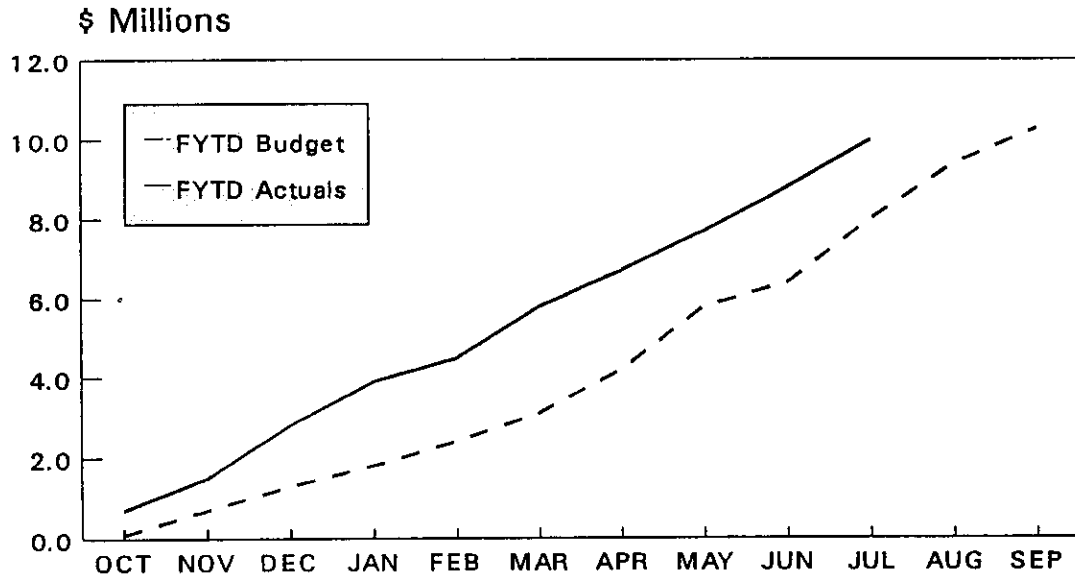
#### PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Construction:
  - Complete WSCF construction. Complete receipt, assembly, and testing of Analytical Laboratory.
- Startup Activities:
  - Receive and install analytical equipment and conduct operation testing.
  - Obtain and train new staff and start operational readiness review.
- Commercial Laboratory:
  - Initiate and complete assessments of facilities performing work under the new awards. Transition analytical workload from current contracts to the new laboratory contractors.

#### MILESTONE STATUS/PROBLEMS/ISSUES

- The WSCF module vendor went into default. This caused a delay in delivery of the modules. Immediate actions were taken to minimize the delay of the remaining modules to the construction site. All module shipments have now been received on site, but require rework and testing before any cost or schedule impact can be fully determined. We are now assessing impacts to the total estimated cost or schedule. Such impacts, if any, will be communicated to EPA and Ecology when defined.





FYTD Budget	0.1	0.7	1.3	1.8	2.4	3.1	4.2	5.8	6.4	8.0	9.4	10.3
FYTD Actuals	0.7	1.5	2.8	3.9	4.5	5.8	6.7	7.7	8.8	10.0		
Spending Var	-0.6	-0.8	-1.5	-2.1	-2.1	-2.7	-2.5	-1.9	-2.4	-2.0		

Variance Explanation: The cost overrun is caused by the exclusion of previous years' capital budgets. Spending rates to support the April 1994 WSCF startup continue as planned. With previous years' capital budget included, trends indicate this project will be completed at the approved project budget level. This may be impacted by the recent contract default of U.S. Modular.



**MAJOR MILESTONE: M-15-00**  
**STATUS FOR END OF MONTH: JULY 1993**

DOE DIRECTOR: R. D. Freeberg

MANAGER: T. M. Wintczak

BASELINE DATE: September 2005

PROJECTED DATE: September 2005

DESCRIPTION: Complete the RI/FS or RCRA RFI/CMS process for all OUs.

**PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

Milestone	Description	Baseline	Projected
M-15-02E	Submit draft barrier constructability report to EPA and Ecology.	1/31/94	1/31/94
M-15-03B	Submit RI Phase II report for 300-FF-1 to EPA and Ecology.	12/31/93	12/31/93
M-15-05A	Submit OU 100-HR-1 Limited Field Investigation (LFI) Report to Ecology and EPA.	8/9/93	8/9/93
M-15-05B	Complete OU 100-HR-1 Treatability Study Activities.	11/30/93	11/30/93
M-15-06A	Submit OU 100-HR-3 LFI Report to Ecology and EPA.	10/31/93	10/31/93
M-15-06B	Complete OU 100-HR-3 Treatability Study Activities.	11/30/93	11/30/93
M-15-07A	Submit OU 100-DR-1 LFI Report to Ecology and EPA.	08/09/93	08/09/93
M-15-08C	Submit OU 100-BC-1 Treatability Study Report to Ecology and EPA.	1/31/94	1/31/94
M-15-09B	Submit OU 100-BC-5 LFI Report to Ecology and EPA.	8/31/93	8/31/93
M-15-10A	Submit validated data of all sampling activities associated with Sections 5.1.1.2, "Source Investigation," and 5.1.1.5, "Vadose Zone Investigation," for OU 100-KR-1 to Ecology and EPA.	10/31/93	10/31/93
M-15-11B	Submit OU 100-KR-4 LFI Report to Ecology and EPA.	1/12/94	1/12/94

Milestone	Description	Baseline	Projected
M-15-13A	Submit validated data of all sampling activities associated with Sections 5.1.1.2, "Source Investigation," and 5.1.1.5, "Vadose Zone Investigation," for OU 100-FR-1 to Ecology and EPA.	11/31/93	11/31/93
M-15-13F	Submit OU 100-FR-3 LFI Report to Ecology and EPA.	4/14/94	4/14/94

## ACCOMPLISHMENTS

- Submitted the draft OU 300-FF-5 F/S Phase I and II report to EPA and Ecology. This completes interim milestone M-15-04A.
- Submitted the OU 100-BC-1 LFI report and qualitative risk assessment to the regulators. This completes interim milestone M-15-08B.
- Completed OU 100-BC-2 intrusive field investigation at crib 116-C-2A.
- Submitted the OU 100-KR-4 second round groundwater data validation report to RL and the regulators.
- Issued the 100-F Reactor site technical baseline report to RL.
- Received regulator approval of the description of work for OU 100-DR-2.
- Incorporated comments on the LFI and qualitative risk assessment reports for OU 100-HR-1.
- Submitted the OU 100-HR-3 fourth round data validation report to RL and the regulators.
- Submitted the OU 100-HR-3 excavation test plan to RL and the regulators.
- Completed surface radiation survey (about 200 acres) at OU 100-NR-1 using the new Rad Rover II.
- Received approval of the NEPA documentation (categorical exclusion) for construction of the prototype barrier at OU 200-BP-1.
- Completed the public review of the treatability test plan for the prototype barrier.
- Prepared and submitted test pit sampling descriptions of work at OU 200-UP-2 for review and comment by the regulators.
- Completed disposition of regulator comments on the OU 200-UP-2 work plan and sent it out for public review.

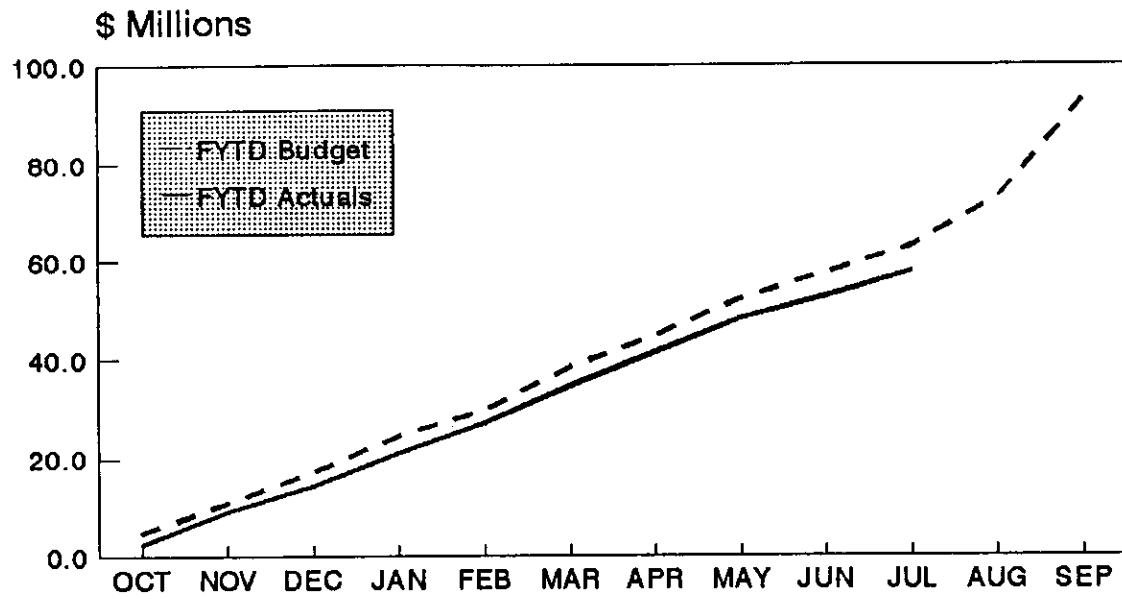
- Finalized waste control plans for OU 200-UP-2 LFI and Pond 216-U-10 test pits and the crib borings.
- Submitted the OU 200-UP-2 descriptions of work at Pond 216-U-10 for review and approval.
- Submitted the revised OU 300-FF-1 RI Phase I Remedial Investigation to the regulators for review.

#### PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

- Submit the LFI report for OU 100-DR-1 to RL and regulators August 9, 1993.
- Perform the OU 100-BC-5 fifth round of groundwater sampling in September 1993.
- Submit the OU 100-HR-3 LFI report to the regulators on October 31, 1993.
- Complete the OU 100-HR-3 fifth round of groundwater sampling in August 1993.
- Complete OU 200-BP-1 eighth round of groundwater sampling by August 1993.
- Begin construction of the Hanford Prototype Barrier in September 1993.
- Complete regulator comment disposition on the OU 200-UP-2 work plan schedule and approve the work plan to begin field activities.
- Begin preparation of the work plan for OU 200-BP-5.
- Begin preparation of the work plan for OU 200-BP-11.

#### MILESTONE STATUS/PROBLEMS/ISSUES

- This milestone is on schedule.



FYTD Budget	4.6	11.0	17.2	24.7	29.9	38.5	44.8	52.2	57.6	63.0	73.0	93.0
FYTD Actuals	2.3	9.1	14.3	21.2	27.2	34.7	41.5	48.1	52.8	57.8		
Spending Var	2.3	1.9	2.9	3.5	2.7	3.8	3.3	4.1	4.8	5.2		

Variance Explanation: None required.

**MAJOR MILESTONE: M-16-00**  
**STATUS FOR END OF MONTH: JULY 1993**

DOE DIRECTOR: R. D. Freeberg

MANAGER: T. M. Wintczak

BASELINE DATE: September 2018

PROJECTED DATE: September 2018

DESCRIPTION: Complete the remedial actions for all OUs.

**PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

Milestone	Description	Baseline	Projected
None.			

**ACCOMPLISHMENTS**

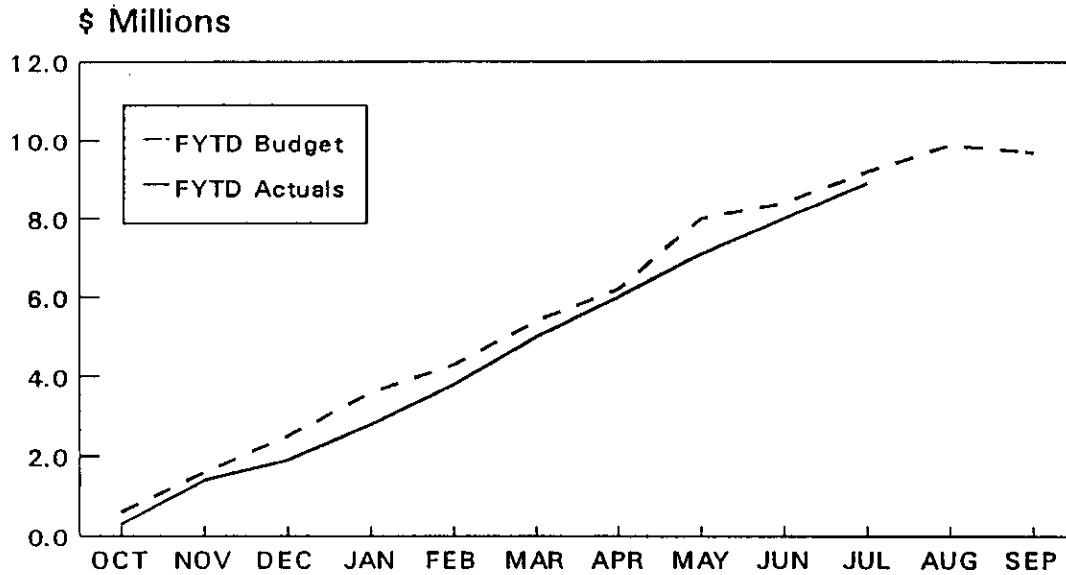
- Perforated four existing wells, completed one new well, and started two new wells to be included in the carbon tetrachloride extraction well network. This amounts to a total of 34 wells drilled or modified to date for vapor extraction purposes.

**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- Complete remediation of the Riverland Rail site by September 1993.
- Complete disposal of the four remaining drums from Sodium Dichromate that are considered Hazardous Waste.
- Reseed and revegetate at the Sodium Dichromate ERA site in the fall.
- Complete N Springs Expedited Response Action proposal (August 1993).
- Complete Burial Ground 618-11 Expedited Response Action proposal (August 1993).

**MILESTONE STATUS/PROBLEMS/ISSUES**

- This milestone is on schedule.



FYTD Budget	0.6	1.6	2.5	3.6	4.3	5.4	6.2	8.0	8.4	9.2	9.9	9.7
FYTD Actuals	0.3	1.4	1.9	2.8	3.8	5.0	6.0	7.1	8.0	8.9		
Spending Var	0.3	0.2	0.6	0.8	0.5	0.4	0.2	0.9	0.4	0.3		

Variance Explanation: None required.

Change from June budget: Submitted a class I change request to reduce the N Springs ERA funding. The N Springs scope was delayed due to comment reviews with RL and the regulators about the EE/CA and remediation approach to be taken. The funding was reprogrammed to other ER Program work scope.



**MAJOR MILESTONE: M-17-00**  
**STATUS FOR END OF MONTH: JULY 1993**

DOE DIRECTOR: J. M. Hennig

MANAGER: D. E. Kelley

**M-17-00A:****BASELINE DATE:** June 1995**PROJECTED DATE:** June 1995

**DESCRIPTION:** Complete liquid effluent treatment facilities and upgrades for Phase I effluents.

**M-17-00B:****BASELINE DATE:** October 1997**PROJECTED DATE:** October 1997

**DESCRIPTION:** Implement best available technology/all known, available, and reasonable methods of prevention, control, and treatment for all Phase II liquid effluents at the Hanford Site.

**PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

Milestone	Description	Baseline	Projected
M-17-06F*	Cease discharge of the 300 Area Process Sewer to the western-most section of the 300 Area Process Trenches (i.e., west process trench).	12/92	12/92
M-17-06G*	Limit discharges to the 300 Area Process Trench to less than or equal to 325 gallons per minute, averaged over the calendar month.	5/93	5/93
M-17-06H	Complete installation of the 384 Power House Building cooling tower equipment.	9/93	9/93
M-17-06I	Complete closed loop cooling for selected equipment in Building 325 (as provided by Project D-402), Building 306-W (as provided by Small Project ER 4039), and Building 326 (as provided by Project D-403).	12/93	12/93

Milestone	Description	Baseline	Projected
M-17-16D	Implement closed loop cooling for Buildings 291-Z, 234-5Z, and 236-Z, as provided by "291-Z Closed Loop Cooling" (Project C-040) and "Plutonium Finishing Plant Liquid Low-Level Waste System Modification" (Project B-680H). Reduce the discharge to Crib 216-Z-20 to less than or equal to 75 gallons per minute, averaged over the calendar month.	1/94	1/94

\*Interim milestones M-17-06F and M-17-06G were added this month to the milestone listing via Tri-Party Agreement change request M-17-93-03. Actions specified were completed before approval of the change request.

#### ACCOMPLISHMENTS

- Obtained approval of change request M-17-93-03, which added six additional interim milestones that address the interim operating restrictions for the 300 Area Process Sewer discharge to the 300 Area Process Trenches.
- Obtained approval of change request M-17-93-05, which allowed for changes to the analytical methods in the Sampling and Analyses Plans to those that are now on contract with Hanford Analytical Services Management. After approval of this change request, the approved methods were entered into the Liquid Effluent Monitoring Information System.
- Submitted the groundwater assessment plan to EPA and Ecology for the 100-D Ponds in July 1993 (milestone M-17-13).
- Transmitted a submittal to EPA, Headquarters, and held a followup meeting in support of the delisting petition that will be completed in August 1993. This document detailed the extensive testing completed on surrogate feed developed to establish an operating envelope for the 200 Area Effluent Treatment Facility.
- Submitted the 80-percent design report to EPA and Ecology for the 200 Area Effluent Treatment Facility (Project C-018H) disposal site and treatment facility.

#### PLANNED ACTION(S) FOR THE NEXT 6 MONTHS

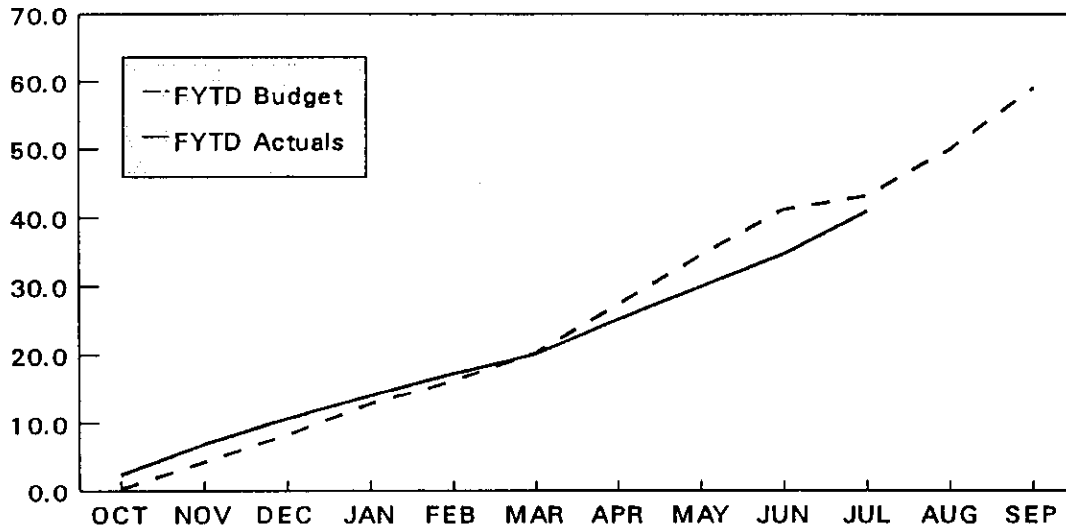
- Submit groundwater assessment plans to EPA and Ecology for Liquid Wastewater Disposal Facility 1325-N, Crib 216-W-LWC, Powerhouse Pond 284-W, and Pond 2101-M by September 1993 (milestone M-17-13).
- Submit the State Waste Discharge permit application to Ecology for the 200 Area Effluent Treatment Facility (Project C-018H) disposal site.

- Submit the addendum to the WAC 173-240, *Engineering Report to Ecology for the 200 Area Effluent Treatment Facility* (Project C-018H). The addendum will address pilot plant test results.
- Submit the addendum to the WAC 173-240, *Engineering Report to Ecology for the 200 Area Treated Effluent Disposal Site* (Project C-018H) disposal site characterization work plan. This report will transmit the results of the site characterization activities for the 200 Area Treated Effluent Disposal Site (Project C-018H).
- Obtain Key Decision 1, approval to proceed with advanced conceptual design, from HQ for Project W-252 ("200 Area Phase II Stream Treated Effluent Disposal Facility").
- Obtain approval from HQ for rebaselining of the Hanford Environmental Compliance Line Item to include additional scope to implement Best Available Treatment Technology for UO<sub>3</sub> Plant wastewater and process condensate, T Plant wastewater and laboratory wastewater, 284 West Powerhouse wastewater, and the 2101-M Laboratory wastewater.

#### **MILESTONE STATUS/PROBLEMS/ISSUES**

- The milestone is on schedule.
- We have maintained compliance with all effluent flow restrictions contained in Tri-Party Agreement milestone M-17.
- HQ has delayed approval for rebaselining of the Hanford Environmental Compliance Line Item to include additional scope to implement Best Available Treatment Technology for UO<sub>3</sub> Plant wastewater and process condensate, T Plant wastewater and laboratory wastewater, 284 West Powerhouse wastewater, and the 2101-M Laboratory wastewater.

\$ Millions



FYTD Budget	0.3	4.3	8.3	12.9	16.2	20.4	27.5	34.7	41.3	43.3	50.1	59.2
FYTD Actuals	2.4	6.9	10.7	14.1	17.3	20.2	25.3	30.1	34.9	41.0		
Spending Var	-2.1	-2.6	-2.4	-1.2	-1.1	0.2	2.2	4.6	6.4	2.3		

Variance Explanation: None required.

Change from June budget: The reduction in budget-at-completion resulted from the decision to have more construction work performed by fixed price contract instead of onsite forces. This decision is based on a soils investigation indicating the potential for contamination along the proposed pipeline route to be less severe than originally envisioned. Additional cost savings result from savings achieved in project design and the 200 Areas Treated Effluent Disposal Facility being declared a "general use facility," which made preparation of planned safety documentation unnecessary.

**MAJOR MILESTONE: M-18-00**  
**STATUS FOR END OF MONTH: JULY 1993**

DOE DIRECTOR: J. M. Hennig

MANAGER: R. J. Roberts

BASELINE DATE: March 1997

PROJECTED DATE: March 1997

**DESCRIPTION:** Complete Waste Receiving and Processing (WRAP) Facility, Module 1, construction and initiate operations.

**PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

Milestone	Description	Baseline	Projected
None.			

**ACCOMPLISHMENTS**

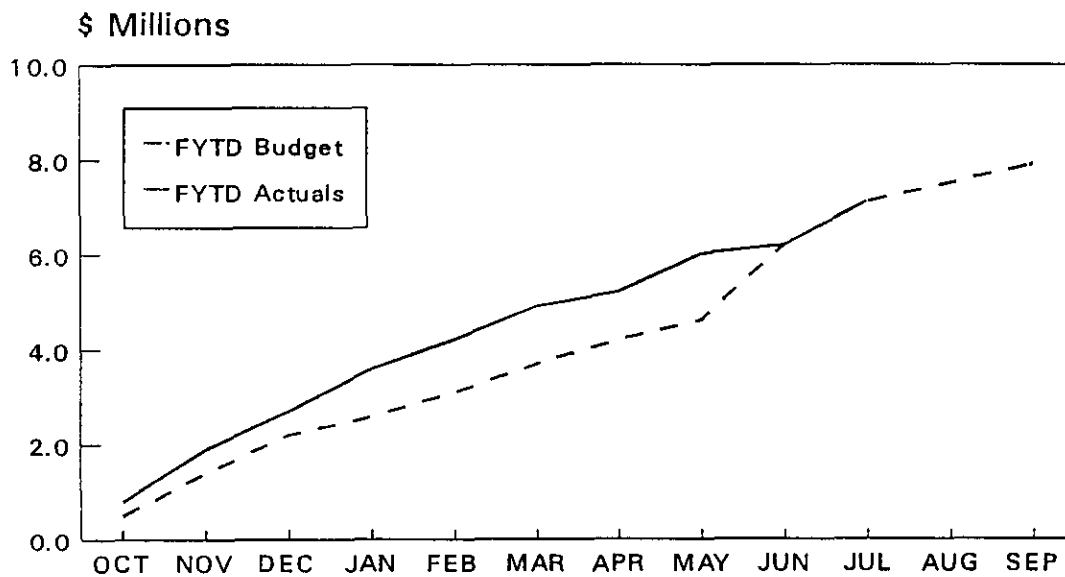
- Continued discussions about the RCRA permit application at the monthly Tri-Party Agreement Unit Managers' meeting.
- Completed procurement of the WRAP Facility, Module 1, "one trip" system for waste load out. Began testing of the system.
- Completed testing of the British Nuclear Fuels, Ltd, glovebox sphincter seal for potential use in WRAP Facility, Module 1.
- Obtained approval from the EPA for one of three air permits needed to support the start of WRAP Facility, Module 1, construction.

**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- Begin construction of the WRAP Facility, Module 1.
- Complete glovebox testing.
- Complete the preliminary safety analysis report for the WRAP Facility, Module 1.
- Prepare construction bid packages for WRAP Facility, Module 1. These bid packages will cover major components of the WRAP Facility (e.g., electrical system, heating and ventilating system, fire protection system). Private firms will bid on these packages.

**MILESTONE STATUS/PROBLEMS/ISSUES**

- This milestone is on schedule.



FYTD Budget	0.5	1.4	2.2	2.6	3.1	3.7	4.2	4.6	6.2	7.1	7.5	7.9
FYTD Actuals	0.8	1.9	2.7	3.6	4.2	4.9	5.2	6.0	6.2	7.1		
Spending Var	-0.3	-0.5	-0.5	-1.0	-1.1	-1.2	-1.0	-1.4	0.0	0.0		

Variance Explanation: None required.

**MAJOR MILESTONE: M-19-00**  
**STATUS FOR END OF MONTH: JULY 1993**

DOE DIRECTOR: J. M. Hennig

MANAGER: R. J. Roberts

BASELINE DATE: September 1999

PROJECTED DATE: September 1999

**DESCRIPTION:** Complete WRAP Facility, Module 2, construction and initiate operations.

**PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

Milestone	Description	Baseline	Projected
None.			

**ACCOMPLISHMENTS**

- Continued the waste formulation for the waste immobilization demonstration testing.
- Issued interim report for initial in drum mixing tests for the WRAP Facility, Module 2B.
- Continued update of the process flow diagrams for grout and polymer immobilization to support the start of Title I design.

**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- Continue preparation of the advanced conceptual design for the WRAP Facility, Module 2A.
- Obtain approval of change request M-19-91-01 from Ecology and EPA.
- Continue with waste form verification and in-drum mixing testing.
- Begin activities for the development of the WRAP Facility, Module 2A, preliminary safety analysis report.
- Obtain Key Decision 1 for the WRAP Facility, Module 2A, from HQ. This decision is required to proceed into definitive design of the project.

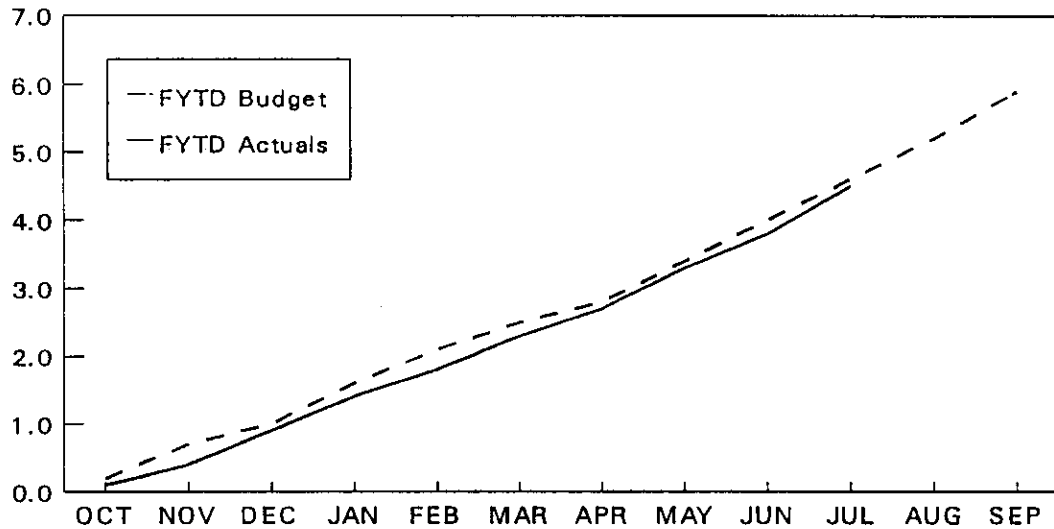
**MILESTONE STATUS/PROBLEMS/ISSUES**

- Technical issues associated with the Waste Isolation Pilot Plant waste acceptance criteria continue to impact the design of the WRAP Facility, Module 2. A strategy for the WRAP Facility, Module 2B, is being evaluated in light of the Waste Isolation Pilot Plant waste acceptance criteria issues. Work on the portion of the WRAP Facility, Module 2

(i.e., the WRAP Facility, Module 2B), that will receive and process remote-handled transuranic waste contaminated hazardous waste (i.e., mixed remote-handled transuranic waste) is behind schedule. The portion of the WRAP Facility, Module 2, that is not affected by the Waste Isolation Pilot Plant waste acceptance criteria (i.e., the WRAP Facility, Module 2A) remains on schedule. The submodularization of the WRAP Facility, Module 2, is reflected in change request M-19-91-01. Ecology and EPA continue to review this change request.

- WRAP Facility, Module 2A, is on schedule for September 1999, the Tri-Party Agreement milestone M-19-00 due date.

\$ Millions



FYTD Budget	0.2	0.7	1.0	1.6	2.1	2.5	2.8	3.4	4.0	4.6	5.2	5.9
FYTD Actuals	0.1	0.4	0.9	1.4	1.8	2.3	2.7	3.3	3.8	4.5		
Spending Var	0.1	0.3	0.1	0.2	0.3	0.2	0.1	0.1	0.2	0.1		

Variance Explanation: None required.



**MAJOR MILESTONE: M-20-00**  
**STATUS FOR END OF MONTH: JULY 1993**

DOE DIRECTOR: J. D. Bauer

MANAGER: S. M. Price

BASELINE DATE: May 1996

PROJECTED DATE: May 1996

**DESCRIPTION:** Submit Part B permit applications or closure plans for all RCRA treatment, storage, and disposal units.

**PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

Milestone	Description	Baseline	Projected
M-20-30	Submit 303-M Oxide Facility Part B.	10/92	Dispute <sup>a</sup>
M-20-42	Submit Thermal Treatment Part B to Ecology and EPA (T-X-3).	12/93	12/94 <sup>a</sup>
M-20-50	Submit 200 Area Effluent Treatment Facility <sup>b</sup> Part B.	8/93	8/93
M-20-31	Submit 1301-N/1325-N Closure Plan/Post-Closure Plan (D-1-2)	5/94	5/94

<sup>a</sup>See "Milestone Status/Problems/Issues."

<sup>b</sup>The unit name has been changed from the 242-A Evaporator/Plutonium-Uranium Extraction (PUREX) Plant Process Condensate Treatment Facility to the 200 Area Effluent Treatment Facility.

**ACCOMPLISHMENTS**

- Submitted revised Hanford Facility Dangerous Waste Part A Permit Application Form 3s for the 325/3100 Hazardous Waste Treatment Unit and the T Plant Complex to Ecology (see "Milestone Status/Problems/Issues").
- Submitted Notice of Deficiency Response Tables for the Grout Treatment Facility, DST System, Central Waste Complex (formerly known as the Hanford Central Waste Complex-Radioactive Dangerous Waste Storage Facility), and 222-S Laboratory Complex portions of the Hanford Facility Dangerous Waste Permit Application.
- Submitted a Notice of Deficiency Response Tables for the Hexone Storage and Treatment Facility.

**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- Submit a Notice of Intent to expand treatment and storage capacities of the DST system.

- Respond to Notices of Deficiency for the following Hanford Facility Dangerous Waste Permit Application portions: 305-B Storage Unit, Revision 1 (M-20-08, submitted November 1990) and the 616 Nonradioactive Dangerous Waste Storage Facility, Revision 2 (M-20-02, submitted October 1991).
- Respond to the Notice of Deficiency for the 100-D Ponds Closure Plan (M-20-40, submitted February 26, 1993).
- Revise 304 Concretion Facility Closure Plan, 303-K Radioactive Mixed Waste Storage Facility Closure Plan, and 216-B-3 Pond System Closure/Postclosure Plan to reflect agreements reached with Ecology on Notice of Deficiency comments.
- Submit revised Hanford Facility Dangerous Waste Part A Permit Application Form 3s for the 207-A South Retention Basin, 200 Area Effluent Treatment Facility, PUREX Plant, and Pond 216-B-3.
- Submit the 200 Area Effluent Treatment Facility Part B permit application to Ecology and the EPA in compliance with milestone M-20-50.
- Submit a change request to Tri-Party Agreement milestone M-20-24 to require submittal of a closure plan for the PUREX Plant in November 1994.

#### MILESTONE STATUS/PROBLEMS/ISSUES

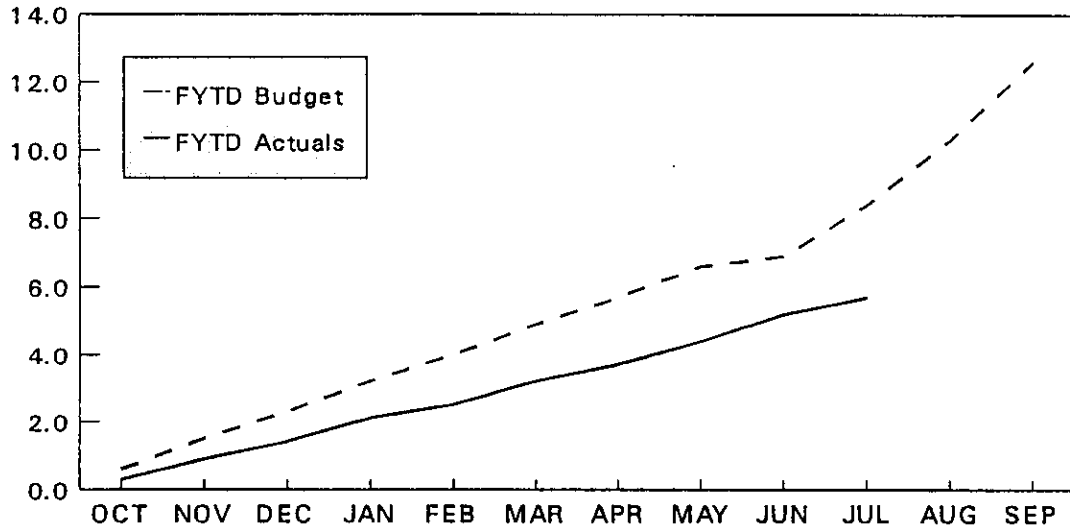
- M-20-30, "Submit 303-M Oxide Facility Part B to Ecology and EPA"--RL submitted to Ecology a request to withdraw the Part A permit application for the 303-M Oxide Facility and a change request to delete the milestone. Ecology denied both. RL then prepared a notice of dispute and met with Ecology to begin resolution. During the February Project Managers' meeting, Ecology requested that RL consider integrating the RCRA closure and *Comprehensive Environmental Response Compensation and Liability Act* (CERCLA) past practice remediation, keeping the Part A permit application in place, and requesting relief from some of the administrative interim status requirements. Later, the Ecology Project Manager directed RL to discuss this issue with the Ecology Kennewick Office. During a March 16, 1993, meeting, Ecology stated its position is to conduct limited sampling, submit a RCRA closure plan, decontaminate and decommission the building, and leave the concrete slab for protection of Burial Ground 618-1. A letter is being prepared to transmit a Tri-Party Agreement issue resolution worksheet reflecting RL's position to delay any action for this treatment, storage, and disposal unit until the OU remediation is completed.
- M-20-50, "Submit 200 Area Effluent Treatment Facility Part B"--Work is proceeding on schedule to meet the milestone. The Part B permit application was transmitted to RL for certification on July 30, 1993.
- M-20-42, "Submit Thermal Treatment (T-X-3) Part B to Ecology and EPA"--Development of the Part B application for this unit has identified several issues to be resolved before a technically accurate and complete

application can be prepared. RL submitted a change package (M-20-92-7), delaying the December 31, 1993, submittal of this Part B permit application for 1 year, on June 9, 1993. EPA and Ecology have given verbal approval of the change package and signature approval is expected at the August Project Managers' meeting. (Note: This change package was approved at the August 3rd Project Managers' meeting.)

- M-20-09, "Submit 216-B-3 Pond Closure/Postclosure Plan to Ecology and EPA"--A strategy and schedule is being prepared to combine remediation activities of the past practice Operable Unit 200-BP-11, with the closure activities of the 216-B-3 Pond System. This strategy supports the activities needed to administratively clean close the 216-B-3A, 216-B-3B, and 216-B-3C lobes by June 1995. Closure of the 216-B-3 Pond and 216-B-3-3 Ditch will be integrated with the RCRA Past Practice activities for the OU. The three parties must decide on this strategy to allow for continued use of the 216-B-3B and -3C lobes to support liquid effluent disposal (216 Consent Order). This integration information was discussed with the Ecology Kennewick Office. Discussions with Ecology are continuing. A change request for the OU, incorporating the proposed strategy, was prepared.
- M-20-02, "Submit 616 Storage Facility Part B to Ecology and EPA"--RL received a formal Notice of Deficiency for this unit's permit application on June 16, 1993. This Notice of Deficiency specifically addressed the 616 Storage Facility waste analysis plan. The date for submittal of waste analysis plan information, to satisfy this notice of deficiency, has been extended from July 30 to August 31, 1993. We are now working to resolve this Notice of Deficiency.
- M-20-08, "Submit 305-B Storage Unit Part B to Ecology and EPA"--RL received a formal request for this unit's permit application on June 16, 1993. This Notice of Deficiency specifically addressed the 305-B waste analysis plan. The date for submittal of waste analysis plan information, to satisfy this Notice of Deficiency, has been extended from July 30 to August 31, 1993. We are now working to resolve this Notice of Deficiency.
- Hanford Facility Dangerous Waste Permit (Hanford Facility Permit)--On July 28, 1993, RL received from EPA the HSWA Portion of the draft Hanford Facility Permit. On July 29, 1993, RL received a letter from Ecology with portions of the draft Hanford Facility Permit related to some of the 15 identified issues. The remainder of the text is expected by August 18, 1993. Ecology will accept comments on the first portions until August 11, and on the remainder until August 31, 1993. A teleconference is scheduled on the HSWA portion on August 13, 1993. The Ecology letter included a schedule for the reissuance of the draft Hanford Facility Permit, with the 60-day public comment period commencing on September 15, 1992.
- T Plant Complex--On July 26, 1993, Ecology formally denied Revision 1 of the T Plant Complex Part A permit application, Form 3. As the basis for denial, Ecology's cited the failure of five tank systems included in the revision "to meet interim status standards due to the lack of adequate secondary containment and leak detection capabilities." Ecology also

expressed concern about adequate secondary containment for storage of containerized waste outside Buildings 221-T and 2706-T. Ecology's approval of Revision 1 is contingent upon a setting a compliance schedule to address secondary containment requirements.

\$ Millions



FYTD Budget	0.6	1.5	2.3	3.2	4.0	4.9	5.7	6.6	6.9	8.4	10.3	12.6
FYTD Actuals	0.3	0.9	1.4	2.1	2.5	3.2	3.7	4.4	5.2	5.7		
Spending Var	0.3	0.6	0.9	1.1	1.5	1.7	2.0	2.2	1.7	2.7		

Variance Explanation: The cost underrun is caused by continued delays in Ecology's review of Closure Plans, Part B Permit applications, and notice of deficiency responses. Less money has been spent than was planned to support revisions of these documents.

**MAJOR MILESTONE: M-24-00**  
**STATUS FOR END OF MONTH: JULY 1993**

DOE DIRECTOR: J. M. Hennig

MANAGER: R. R. Thompson

BASELINE DATE: December 1993

PROJECTED DATE: December 1993

**DESCRIPTION:** Install RCRA groundwater monitoring wells at the rate of 29 in CY 1989, 30 in CY 1990, and up to 50 per year thereafter as specified by agreed interim milestones until all land disposal units and SSTs are determined to have RCRA-compliant monitoring systems

**PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

Milestone	Description	Baseline	Projected
M-24-00E	Install a maximum of 50 wells for CY 1993.	12/93	12/93
M-24-30 **	Install one additional RCRA well around Crib 1325-N (3 total).	12/93	4/93
M-24-31	Install two additional RCRA wells around the low-level burial grounds (81 total).	12/93	12/93
M-24-32	Install three additional RCRA wells around the Grout Treatment Facility (13 total).	12/93	12/93

**ACCOMPLISHMENTS**

- Fixed price contractor began drilling during July and was making progress toward total depth on the first hole by the end of the month.

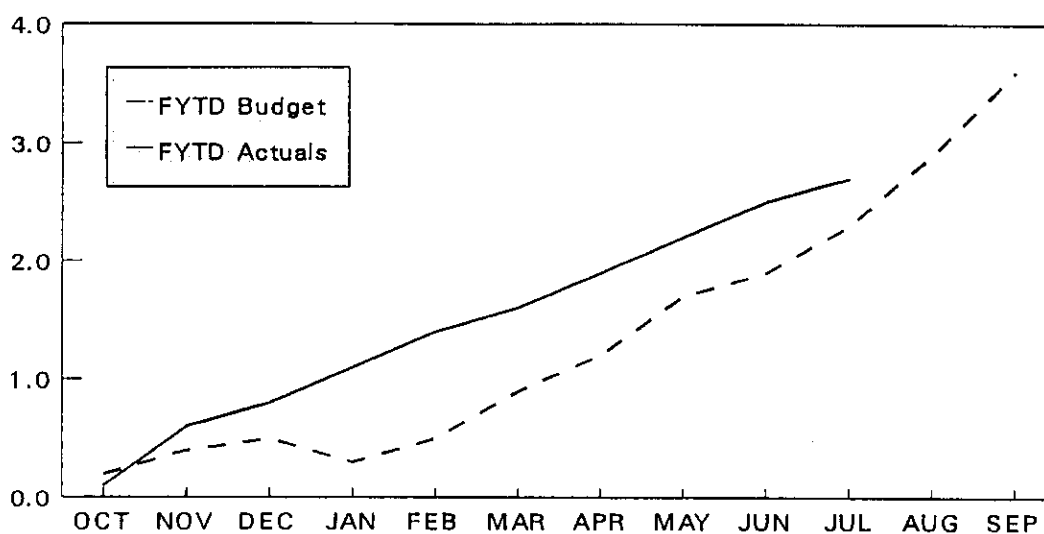
**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- Complete drilling activities for CY 1993 wells.

**MILESTONE STATUS/PROBLEMS/ISSUES**

- After identifying seven locations for new wells in CY 1993, Ecology and RL agreed that monitoring to be accomplished by one of the wells originally proposed at Crib 1325-N can be accomplished by an existing well. Change request M-24-93-1, which reduces this milestone by one well, received final approval on August 3. Thus, one of the interim milestones M-24-30 was completed on April 22, 1993.

\$ Millions



FYTD Budget	0.2	0.4	0.5	0.3	0.5	0.9	1.2	1.7	1.9	2.3	2.9	3.6
FYTD Actuals	0.1	0.6	0.8	1.1	1.4	1.6	1.9	2.2	2.5	2.7		
Spending Var	0.1	-0.2	-0.3	-0.8	-0.9	-0.7	-0.7	-0.5	-0.6	-0.4		

Variance Explanation: The spending variance through June is an artificial variance resulting primarily from a reduction in the Line Item cost account plan 3A6A01 for Project W-017H, "Well Installation." RL deobligated \$750,000 of the project's funds with Project Authorization Mod 9 issued on December 22, 1992. This reduction was included in the cost account plan in January 1993 and, therefore, appears as a reduction in FY 1993. Adjusting for the deobligation, the variance is within reporting tolerance and no explanation is required.

**MAJOR MILESTONE: M-26-00**  
**STATUS FOR END OF MONTH: JULY 1993**

DOE DIRECTOR: J. M. Hennig

MANAGER: C. J. Geier

BASELINE DATE: April 1993

PROJECTED DATE: April 1993

**DESCRIPTION:** Submit annual Hanford land disposal restrictions (LDR) report in accordance with the LDR Plan to cover the period from April 1 through March 31.

**PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

Milestone	Description	Baseline	Projected
M-26-01D	Submit an annual Hanford LDR Report in accordance with the LDR Plan to cover the period from April 1 of the previous year through March 31 of the reporting year.	4/30/94	4/30/94

**ACCOMPLISHMENTS**

- Received regulator comments on the 1993 LDR Report.

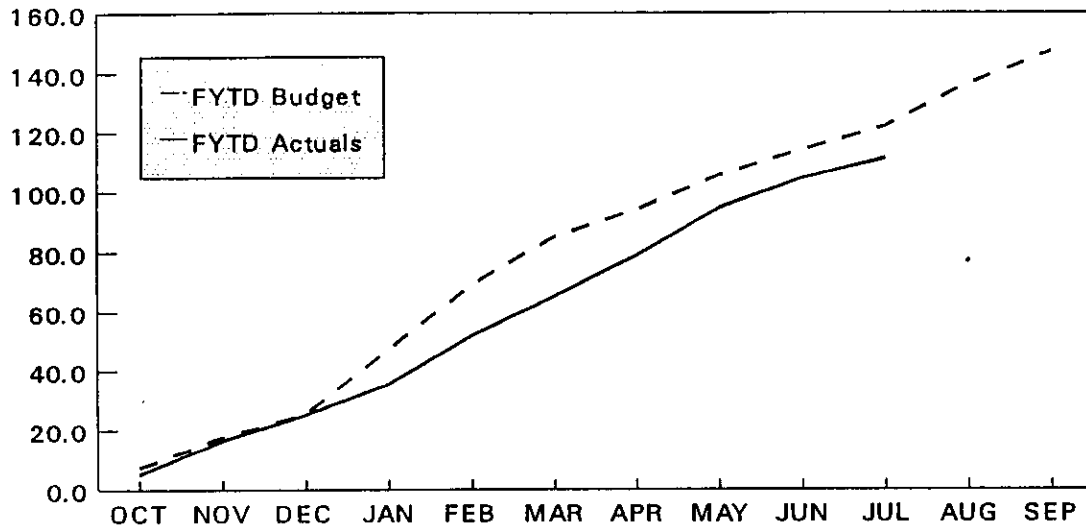
**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- Resolve any regulator comments on the 1993 LDR Report and receive regulator approval of the document.

**MILESTONE STATUS/PROBLEMS/ISSUES**

- This milestone is on schedule.

\$ Thousands



FYTD Budget	7.5	17.7	25.5	47.4	69.4	85.3	94.3	105.8	114.4	122.4	136.6	147.1
FYTD Actuals	5.3	16.4	25.1	35.6	52.0	65.4	79.1	94.8	104.8	111.6		
Spending Var	2.2	1.3	0.4	11.8	17.4	19.9	15.2	11.0	9.6	10.8		

Variance Explanation: None required. This chart is prepared in thousands to provide meaningful data. The Budget Baseline Summary table shows zero because it is in millions.



**MAJOR MILESTONE: M-30-00**  
**STATUS FOR END OF MONTH: JULY 1993**

DOE DIRECTOR: R. D. Freeberg

MANAGER: T. M. Wintczak

BASELINE DATE: September 1993

PROJECTED DATE: September 1993

**DESCRIPTION:** Complete integrated general investigations and studies for the 100 Area.

**PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

Milestone	Description	Baseline	Projected
M-30-05	Complete installation of all-field instrumentation and initiate monitoring activities necessary to perform long-term aquifer river investigations.	9/93	9/93

**ACCOMPLISHMENTS**

- Continued conductivity data collection project at 100-H Area. The project measures conductivity in the river, river bank seepage, and a nearby groundwater well.

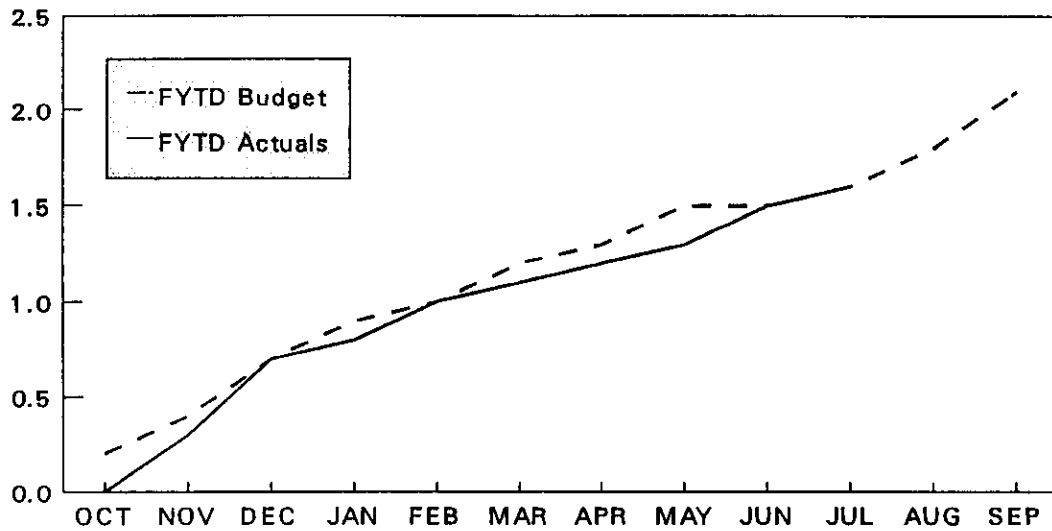
**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- Install automated river level recorder station at 100-N Area and automated water level recorders in 100-N Area wells. Obtain profiles of conductivity in shoreline wells and borehole velocity measurements from 100-H Area wells.
- Receive regulators' concurrence on M-30-05 obligations based on discussions at the July unit managers' meeting (100 Area National Priorities Listing Agreement 52).

**MILESTONE STATUS/PROBLEMS/ISSUES**

- This milestone is on schedule.

\$ Millions



FYTD Budget	0.2	0.4	0.7	0.9	1.0	1.2	1.3	1.5	1.5	1.6	1.8	2.1
FYTD Actuals	0.0	0.3	0.7	0.8	1.0	1.1	1.2	1.3	1.5	1.6		
Spending Var	0.2	0.1	0.0	0.1	0.0	0.1	0.1	0.2	0.0	0.0		

Variance Explanation: None required.

Change from June budget: Reprogrammed underruns in this milestone's scope (river monitoring and sampling program) were redistributed to other Environmental Restoration scope through a class I programmatic change request.

**MAJOR MILESTONE: M-31-00**  
**STATUS FOR END OF MONTH: JULY 1993**

DOE DIRECTOR: R. W. Brown

MANAGER: R. L. Fritz

BASELINE DATE: TBD

PROJECTED DATE: TBD

DESCRIPTION: Provide additional DST capacity. Construction complete.

**PAST DUE OR SUPPORTING INTERIM MILESTONE(S) FOR THE NEXT 12 MONTHS**

Milestone	Description	Baseline	Projected
M-31-02	Recommend additional tank milestones.	09/30/92	08/31/93

**ACCOMPLISHMENTS**

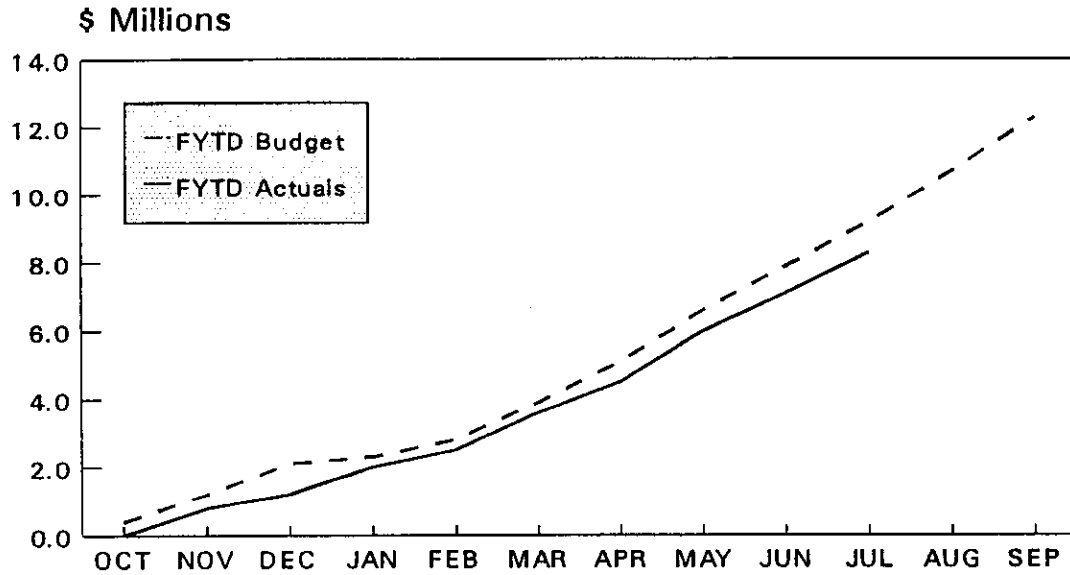
- Released the advanced conceptual design.
- Completed the underground tank standard design criterion 4.3 and sent it out for final review and approval.
- Completed the hazards and operational study.

**PLANNED ACTION(S) FOR THE NEXT 6 MONTHS**

- Complete the Project Management Plan.
- Obtain approval on Level 0 change request for project rescoping.
- Complete the draft preliminary safety analysis report.
- Continue preliminary design of the New Multi-Function Waste Tank Facility.

**MILESTONE STATUS/PROBLEMS/ISSUES**

- The multi-function waste tank facility project is working to current baselines and limited scope until HQ approves the Level 0 change request.
- Milestone M-31-02 is included in the negotiations now under way. This milestone will be deleted and a new milestone will be generated for future tanks.



FYTD Budget	0.4	1.2	2.1	2.3	2.8	3.9	5.1	6.6	7.9	9.2	10.7	12.3
FYTD Actuals	0.0	0.8	1.2	2.0	2.5	3.6	4.5	6.0	7.1	8.3		
Spending Var	0.4	0.4	0.9	0.3	0.3	0.3	0.6	0.6	0.8	0.9		

Variance Explanation: The variance is primarily the result of Title I work, and result from two drivers: (1) Kaiser Engineers Hanford did not ramp up as fast as was expected and (2) subsurface investigation is running behind schedule as a result of a change in the method of performance from the original plan.

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